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STATISTICAL REVIEW OF DAM CONSTRUCTION

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STATISTICAL REVIEW OF DAM CONSTRUCTION

Robert A. Sutherland

Summary

A brief historical note is followed by a review of dam construction methods and their influence on the size and number of dams being undertaken. A tabulation of dams of 100 ft. or more in height is given and forms the basis of other tables which summarize the heights, types and chronological progress of dam building.

Historical

Historical records and remains of structures tell us that the ancient Assyrians and Egyptians constructed works of great magnitude for conserving and diverting water. King Amenemhat of Egypt created a storage reservoir on the Nile which could store many million acre feet,[1] and ruins still exist of a masonry dam built by Menes I about 4000 B C twelve miles south of Memphis. This dam is recorded by Herodotus and was probably about 50 feet high and 1500 feet long. One of the largest dams ever built was constructed in Arabia by King Lokman about 1700 B C. This dam was about 2 miles long and contained about 15 million cubic yards of masonry. The flood caused by its collapse is recorded in Arabian history.[2]

The Romans were of course well versed in the hydraulic arts and their aqueducts are well known; many in fact are still standing and some still in use. As far as is known however the Roman dams were of no great height, being intended for diversion rather than storage.

In the middle ages there is little record of any progress in Europe but it is known that dams were being built in India, where remains of many structures exist, and that water diversion and probably storage was undertaken by the Aztecs of Mexico and some of the Indian Tribes of the southwestern part of the North American Continent. It is interesting to note that at the time of the Renaissance in Europe, the initiative in dam building came in Spain from the Moors, who had also preserved during the dark ages much of the learning accumulated by the Greeks, Egyptians and Arabs.

Turning to the modern period, it appears that the oldest existing masonry dams in Europe were the Almanza and Alicante dams in Spain, built some time prior to 1586.[3] We also have a fairly complete record of the Ponte Alto arch dam in Italy[4] as shown in Figure 1. This dam was first built in 1611 and has been raised several times since. Mr. Julian Hinds has described several buttress dams built in Mexico over 200 years ago.[5]

1. Civil Engineering April 1931
2. Charles Prelini, "Engineering News Record", October 6, 1921
3. Wegmann "The Design and Construction of Dams."
4. Information supplied by the late Fred Noetzli.
5. "Engineering News Record" September 1, 1932.

Modern dam building may be assumed to start about one hundred years ago with the construction of the Zola arch dam in France about 1843. This dam is 123 feet high.

Undoubtedly one of the factors which led to the use of higher dams was the use of cast iron, and at a later date, steel, for the construction of pressure conduits and control gates. The Romans carried water long distances but almost always by open canal or aqueduct, since the only closed conduits at their disposal were of brick, earthenware or lead. The water from the old Spanish dams was released by means of crude wooden gates set in tunnels. The failure of the ancient dams previously mentioned was no doubt due to the inability to control the water once it was impounded.

In general, the industrial revolution led to increasing density of population in the manufacturing areas, with increased need of water for manufacture, health and sanitation and also for irrigation in the overseas areas which supplied much of the food and other products demanded by the industrial areas, and it therefore marks the practical beginning of the construction of dams of heights over 100 feet.

Effect of Construction Methods on Size of Dams

The principal construction factors in opening the way for larger dams were: the development of Portland cement, the increased use of mechanical power and improvements in the quality and reliability of explosives. Up to about the end of the last century a masonry dam was built in about the same manner as a retaining wall, with the stones being handled by derricks at a maximum rate of about 5 cubic yards per derrick hour. Soon thereafter the use of cyclopean concrete enabled the output to be doubled or tripled. After about 1910 improved concrete mixers and improved aggregate handling enabled concrete to be supplied in abundance and led to attempts to more rapid placing. The chuting method, so much used during the twenties, appeared for a time to be the answer to the problem of placing the concrete, but the defects of the wet concrete used soon became apparent and the chuting method was on its way out. Drier concrete then came into use about the end of the twenties, and other methods were developed for placing, including belt conveyors, whirleys, cableways and gantry cranes. Vibrators were developed about this time to speed and improve the final disposition.

In the construction of earthfill dams, a similar parallel race can be seen between the means of procuring the materials of construction and placing them in position. The early horse-drawn scrapers had obvious limitations, and were followed by steam shovel excavation and placing by means of horse drawn wagons. In view of the experience which had been obtained in California in the latter part of the last century in hydraulic mining, it is not surprising that the sluicing of material into the dam was tried at the San Leandro dam. Many of the largest earthfill dams were subsequently built by hydraulic means, either the so-called semi-hydraulic method in which the material is excavated mechanically and placed and classified by water or the full hydraulic method in which both excavation and placing are hydraulic. In about the last fifteen years the prodigious development in various types and sizes of mechanical earth handling equipment has led to the placing of enormous volumes of material in earth dams by purely mechanical means.

The possible size of arch, multiple arch and other buttress dams has been influenced to some extent by the available means of construction, but has depended to a notable extent on progress in design. In this connection, it may

be appropriate to record the names of a few of the many pioneers whose vision and boldness paved the way to substantial progress.

In the field of arch dams, the names of Wade in Australia and Jorgensen in the USA come to mind, whose practical efforts were supported by theoretical developments by numerous eminent engineers whose way was blazed by William Cain. The trial load method of design developed by engineers of the U S Reclamation Bureau marked a large forward step in determining what actually happens in an arch dam. In more recent times, increasing boldness has been displayed by European engineers in the design and construction of arch dams, and the names of Coyne, Marcello and Carlo Semenza may be mentioned in this connection, and that of Guido Oberti in model testing and design. Tolke has made contributions to the calculation of curved dams of less than gravity section.

In the field of multiple arch dams, John S. Eastwood was an undoubted pioneer, and he was followed by Kambo in Italy and by Noetzli in the USA. The slab and buttress dam owes its development almost entirely to Nils F. Ambursen and his associates, and important contributions were made in developing the buttress dam by Noetzli and Marcello.

The design feature of earth dams owes a great debt to Joel Justin and Terzaghi and numerous soil mechanics scientists, and that of the rock fill dams to Galloway and Steele. In recent years composite types of rock and earth dam have come increasingly to the fore, pioneered by James Growdon. The mention of these few names in no way detracts from the notable contribution made by a host of eminent consulting engineers and those engaged in the governmental agencies of the USA and other countries.

Statistical Review of Dams

A tabulation of dams 100 feet high and higher is appended as Table I, and forms the basis of the following analyses. This list had its origin about thirty years ago in the form of an indexed note book, but later developed into a card index, and it is hoped may be eventually developed by some international body into a "Who's Who of Dams". The present list is offered by the Author only as a skeleton, whose flesh may be filled in by the co-operation of engineers in various countries.

It may be of interest to the profession to point out that the height of a dam has never been authoritatively defined and is in fact variously interpreted. In the few cases in Table I where the author has measured or estimated the height from drawings, he has taken the distance between the lowest point of the base in the main channel, disregarding appendages such as a cut-off wall or trench, to the crest of the dam. In other cases, one of the published figures for height has been used (for the height is often variously reported.)

There is also no clear-cut distinction between types of dam. A gravity dam should have a base width at least equal to two thirds the height, but when curved and with grouted joints it will develop some arch action even if the base width is greater than that figure, and in the case of the Sautet dam in France, a considerable part of what might appear to be a gravity section was intended only as a support to the canyon side walls, with the water load being carried by arch action in the relatively thin up-stream portion of the dam. Where a base width of approximately two thirds or more of the height exists, the Author has used the rule of thumb of classifying the dam as a gravity dam, unless otherwise stated by the designers. The buttress dam which started as a series of buttresses, with intervening reinforced concrete slabs, has now

developed various modifications, but all these have been classified simply as buttress dams.

In the last ten or twenty years there has been an increased overlapping between the earth fill and rock fill types of dam, and it is sometimes difficult to make a clear distinction. Also many dams are composed of two or more portions, each of a different type. In a few cases, data are given in Table I for each of the component parts, but in most cases such a dam is classified by what appears to be its predominant type as the first designation, with other type designations appended. In a few cases, a dam which started life as one type has subsequently been altered to a different type. For example the Spaulding dam was started as a gravity dam and changed during construction to an arch dam, while the Lages dam in Brazil was built as a gravity dam and recently raised as a buttress dam. In all cases the first type designated in Table I has been used in classifying the dams in Tables III to VIII. There are also listed many dams whose type is not known to the Author, and in such cases the entry has been recorded as a basis for later emendation.

Very high dams are a subject of great popular interest and in Tables IIa and IIb outstanding dams of the various types are listed by name for convenience.

The dams listed in Table I have been classified, by types, as to height and year of construction in Tables III to VIII. Of all the dams listed, totalling roughly 1300 dams constructed or being constructed, and about 160 proposed, approximately one half are gravity dams and approximately one quarter are earth dams, while the remaining quarter of the number is divided between arch, rock fill, multiple arch and buttress dams, in that order.

Chronologically, it is interesting to note that at the turn of the century, about 50 dams over 100 ft. high are recorded, and that this number doubled or more than doubled each succeeding 10 years for the next three decades. While this geometrical rate of progression has not been maintained, it must be remembered that the average size has been increasing all the time. For example, the average cubic content estimated from 62 of the gravity dams in the decade 1920-29 is about 240,000 cubic yards, while that estimated from 46 gravity dams in the decade 1930-39 is almost double that figure. Tables IV and V illustrate the rapid rate of development of the arch and multiple arch dams up till 1930. Thereafter, good arch dam sites have been harder to find. The high cost of labor and forms in the principal dam building countries has no doubt had a discouraging effect on the development of the multiple arch dam, in addition to certain technical difficulties which are well known to those familiar with the subject.

Table IX shows chronologically the number of dams of all types of different heights.

Figure 2 shows the chronological steps in height of the main types of dams, while Figures 3 and 4 show the chronological steps in volume.

As regards geographical distribution, a glance through Table I indicates that certain countries have predominated in dam construction, and an attempt has been made in Table X to present a rough yardstick of various countries, by listing the area of the country, or group of countries, and the number of entries in Table I. Then the smaller the average land area per dam, the more intensive the development may be assumed to be. This is admittedly a very rough gage, since a host of other factors are involved.

As a broad summary, it appears that the gravity and earthfill types of dam will continue to be the work horses in water conservation, with other types playing a smaller part as site and economic conditions warrant. The need for

dams of ever increasing size will continue, and economic considerations will provide a strong incentive to the use of modifications which tend to economy of labor and construction materials.

The Author will welcome comments and corrections from any engineer into whose hands this compilation may fall. With regard to the naming of projected dams, he would suggest to those responsible that a permanent name be selected as early as possible in the planning of a project. The literature is replete with confusing changes of name. Table I may be of some benefit in guiding the selection of names for future dams.

The Author wishes to record his grateful thanks for help received from many engineers in different countries, a list of whose names would be too lengthy to reproduce here.

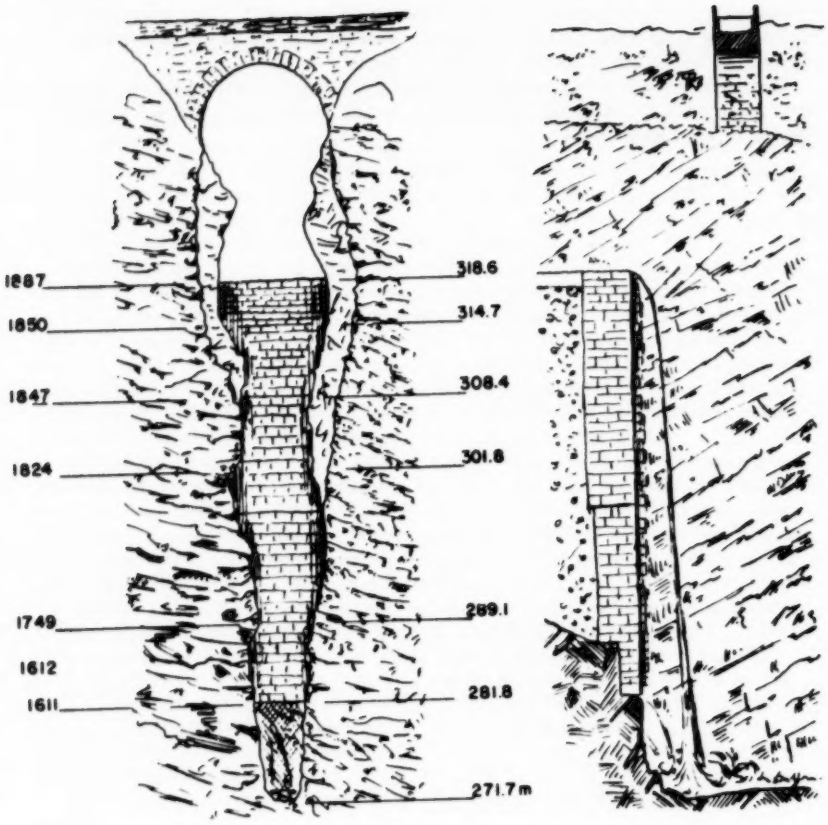

Fig. 1. Ponte Alto Arch Dam

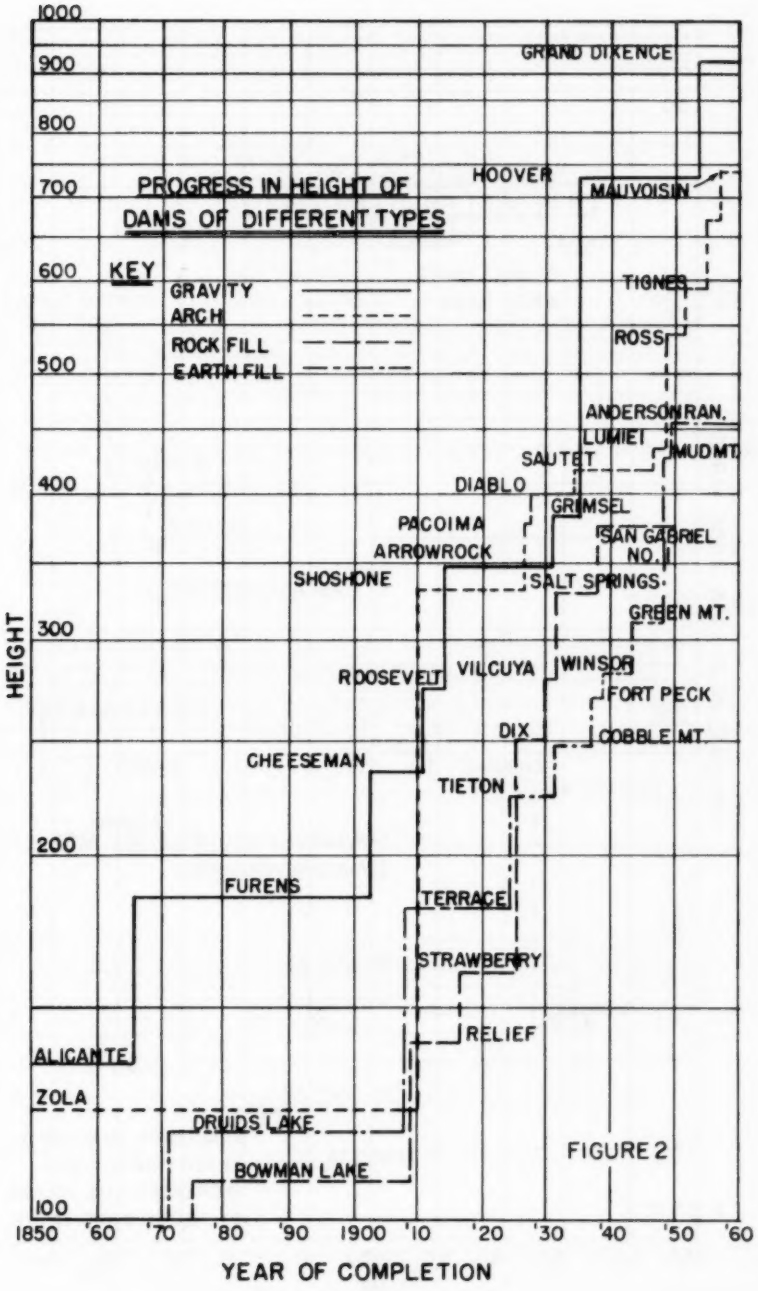
PROGRESS IN HEIGHT OF
DAMS OF DIFFERENT TYPES
KEY
GRAVITY
ARCH
ROCK FILL
EARTH FILL
HEIGHT
YEAR OF COMPLETION
1000
900
800
700
600
500
400
300
200
100
1850
'60
'70
'80
'90
1900
'10
'20
'30
'40
'50
'60
GRAND DIXENCE
HOOVER
MAUVOISIN
TIGNES
ROSS
ANDERSON RAN.
LUMIET
MUD MT.
SAUTET
DIABLO
GRIMSEL
PACOIMA
SAN GABRIEL NO. I
ARROWROCK
SHOSHONE
SALT SPRINGS
GREEN MT.
ROOSEVELT
VILCUYA
WINSOR
FORT PECK
DIX
COBBLE MT.
CHEESEMAN
TIETON
FURENS
TERRACE
STRAWBERRY
RELIEF
ALICANTE
ZOLA
DRUIDS LAKE
BOWMAN LAKE

FIGURE 2

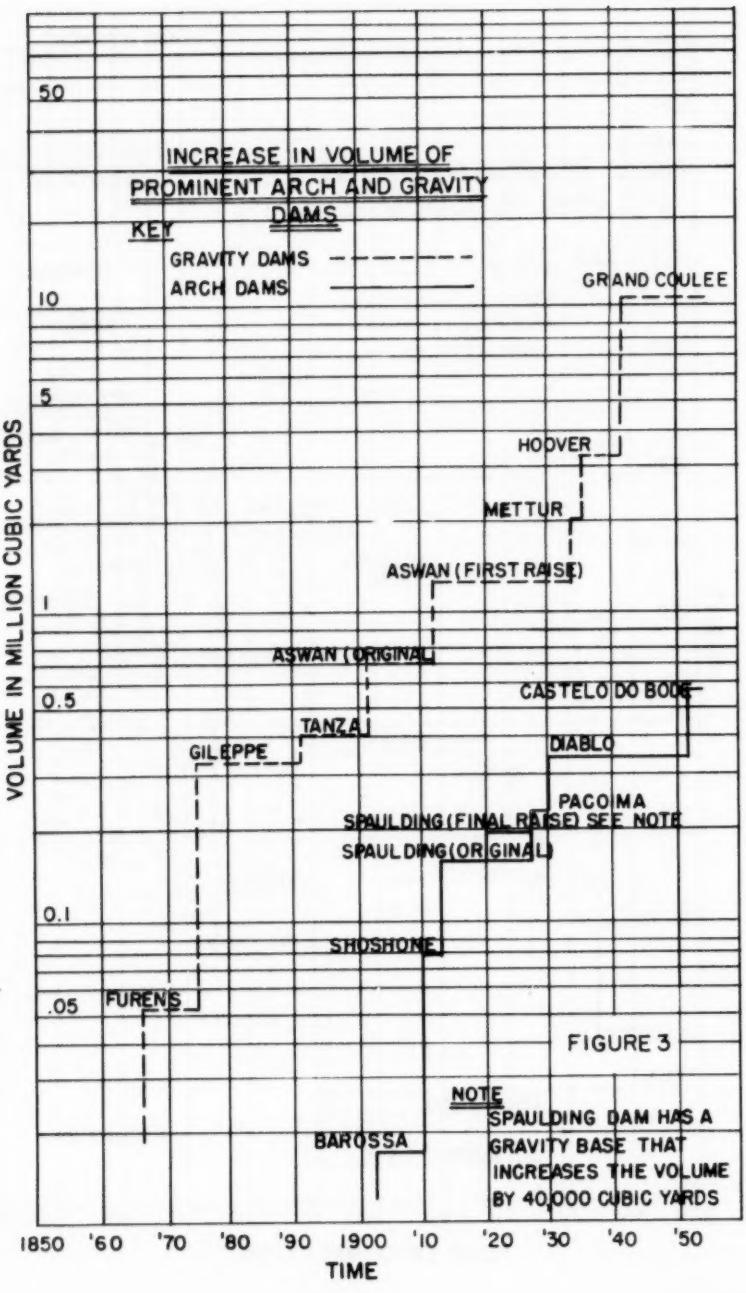
INCREASE IN VOLUME OF PROMINENT ARCH AND GRAVITY DAMS
KEY
GRAVITY DAMS
ARCH DAMS
VOLUME IN MILLION CUBIC YARDS
50
10
5
1
0.5
0.1
.05
GRAND COULEE
HOOVER
METTUR
ASWAN (FIRST RAISE)
ASWAN (ORIGINAL)
CASTELO DO BODE
TANZA
DIABLO
GILEPPE
PACOIMA
SPAULDING (FINAL RAISE) SEE NOTE
SPAULDING (ORIGINAL)
SHOSHONE
FURENS
BAROSSA
1850 '60 '70 '80 '90 1900 '10 '20 '30 '40 '50
TIME
NOTE
SPAULDING DAM HAS A GRAVITY BASE THAT INCREASES THE VOLUME BY 40,000 CUBIC YARDS

FIGURE 3

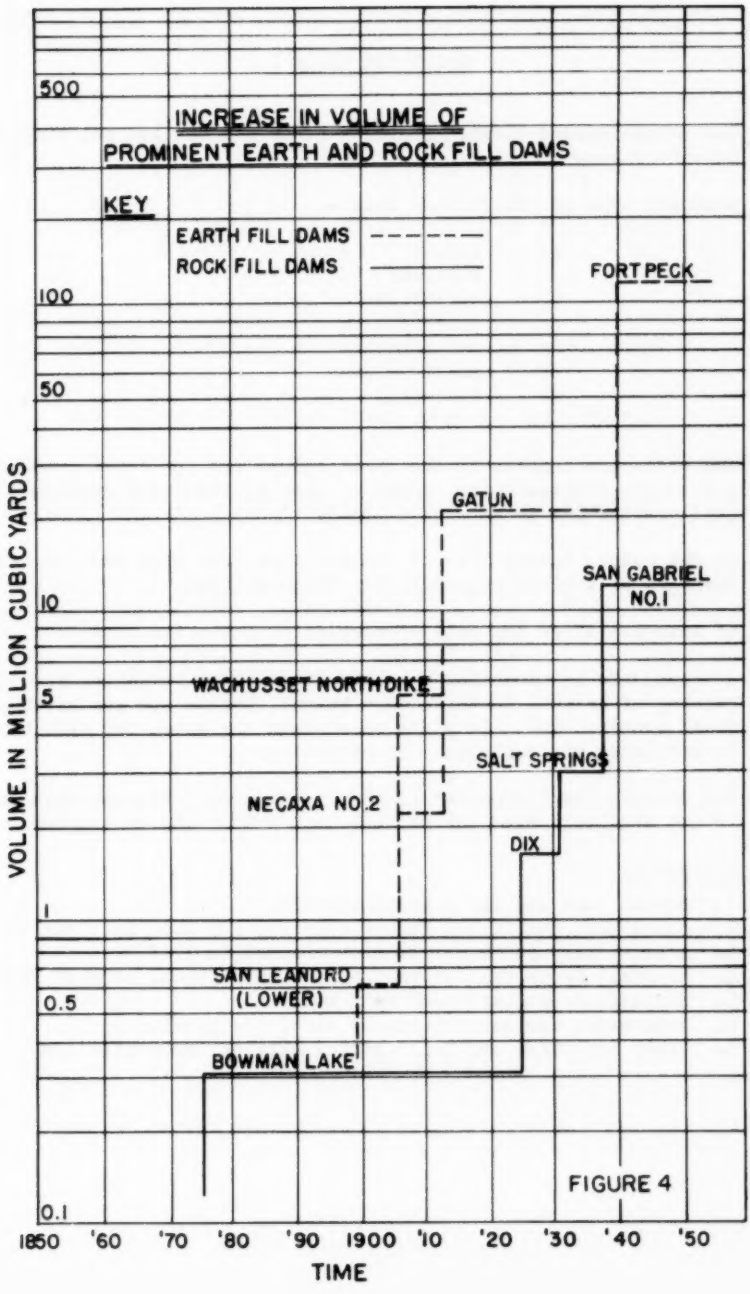
INCREASE IN VOLUME OF
PROMINENT EARTH AND ROCK FILL DAMS
KEY
EARTH FILL DAMS
ROCK FILL DAMS
FORT PECK
GATUN
SAN GABRIEL NO.1
WACHUSSET NORTH DIKE
SALT SPRINGS
NECAXA NO.2
DIX
SAN LEANDRO (LOWER)
BOWMAN LAKE
VOLUME IN MILLION CUBIC YARDS
500
100
50
10
5
1
0.5
0.1
1850
'60
'70
'80
'90
1900
'10
'20
'30
'40
'50
TIME

FIGURE 4

NOTES FOR TABLE I

The column headed "State" includes other appropriate political Sub-divisions.

Dominant type of dam denoted thus:-

A	arch
B	buttress
E	earthfill
G	gravity
MA	multiple arch
MD	multiple dome
RF	rock-fill

The reference numbers in the first column are for convenience only and do not represent the number of dams as there are numerous duplications due to alternate names.

In the column headed "River" contractions have been used to indicate the fork of a river e.g. M.F. for "middle fork".

An asterisk after the date of completion indicates subsequent failure.

A second date in parentheses in the last column indicates subsequent raising of height, in which case height, length etc are given for the final construction. In a few cases data are given for each height. Future dates of completion are estimated.

The designation "Proposed" in the last column indicates that information is not available that the dam has been authorized or started.

Footnotes:

1. Bowman Lake dam was dismantled 1927
2. Goose Neck dam failed during construction when fill was 70 ft high.
3. A subsidiary earth dam at Hemet failed in 1927
4. Marshall Creek dam failed during construction, rebuilt 1939
5. Montejaque dam has never held water
6. Sweetwater dam was originally arch, now gravity
7. Table Rock Cove was built at the site of Greenville dam

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH

TABLE I

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1	Aaensire			Norway	190MA	690				1922
2	Abitibi Canyon	Ditto	Ontario	Canada	275G	860	299 000			1932
3	Adaminaby	Eucumbene	N.S.W.	Australia	200G			1 400 000		Proposed
4	Aganani	Oyodo	Kyushu	Japan	218G		222 000	30 400	Slate	Proposed
5	Agaro	Agaro		Italy	187G	773	195 000	15 600	Tuff	1938
6	Agekawa	Agano		Japan	131G	1 000	130 000	1 000		Proposed
7	Agertalsperre	Ager		Germany	138G			17 000		1929
8	Agua Sabon	Agua Sabon	Ontario	Canada	120G	1 400	85 000			1948
9	Aigle see l'Aigle									
10	Aiyar	Damodar		India	220E	23 000		1 250 000		Proposed
11	Akagawa	Hogami	Tohoku	Japan	206G	572	320 000	48 000	Andesite	1955
12	Akano	Yoshino	Shikoku	Japan	102G		72 000	3 200	Slate	Proposed
13	Akiba No.1	Tenyru	Tokai	Japan	181G	720	310 000	4 650	Granite	1956
14	Akiba No. 2	Tenyru	Tokai	Japan	181G	975	520 000	6 100	Granite	1957
15	Akikami	Akikami	Tokai	Japan	190A	700	165 000	8 100	Granite Porphyry	Proposed
16	Alamogordo	Pecos	N.M.	U.S.A.	148E	3 084	1 914 900	148 000	Sandstone	1937
17	Albeni Falls	Pend Oreille	Idaho	U.S.A.	100G	1 100			Granite	1954
18	Alcova	N.Platte	Wyoming	U.S.A.	181E	763	1 600 000	190 000	Sandstone Limestone	1937
19	Alder	Nisqually	Washington	U.S.A.	330A	178	440 000	200 000	Andesite	1944
20	Aleman see President Aleman									Proposed
21	Alexander			Hawaii	140E	620	580 000	2 500	Laterite	1932
22	Alicante	Monegre		Spain	134G	190		3 300		1584
23	Allatoona	Etowha	Georgia	U.S.A.	200G	1 250	520 000	722 000	Schist Quartz	1950
24	Almaden	Almaden Creek	California	U.S.A.	110E	500	250 000	2 000		1936
25	Almanor N. Fork	Feather	California	U.S.A.	135E	1 250	1 532 000	1 308 000		1927
26	Alpe Cavalli	Loranco	Novara	Italy	114G	540	175 000	7 000	Limestone Moraine	1925
27	Alpine	Lagunitas Creek	California	U.S.A.	100	340	58 000	3 060	Basalt	1917
					108G	-		4 600		(1924)
					139	550		9 200		(1942)
28	Altus N. Fork	Red	Oklahoma	U.S.A.	110G		50 500		Granite	1948
29	Alvaro Obregon	Yugui	Sonora	Mexico	187E		11 144 000	2 432 000	Basalt Alluvium	1953
30	Ambuklao	Agno	Luzon is	Philippines	420E.RF	1 400	8 000 000			1955
31	Americana	Atibaia		Brazil	100G	560	240 000	82 000	Rock	1948
32	Ampollino I.			Italy	122G			48 000		1924
33	Amsteg	Reuss		Switzerland	114A	130	3 000	160	Granite	1922
34	Anchicaya	Anchicaya		Colombia	150A	520				1954
35	Anchor	Owl Creek	Wyoming	U.S.A.	190A	550				Proposed
36	Ancipa	Troina		Italy	305B	750	380 000	18 000		1952
37	Anderson	Coyote Creek	California	U.S.A.	235E	1 200	3 250 000	75 000		1952
38	Anderson Ranch	S.F. Boise	Idaho	U.S.A.	456E	1 350	9 080 000	500 000	Granite	1948
39	Angara	Angara		Russia						Proposed

40	Angostura	Rio Bavispe		Mexico	298A		190 000	1 029 000		1940
41	Angostura	Cheyenne	S.Dak	U.S.A.	180GE	1 900	250 000	220 000	Shale Sandstone	1950
42	Anyox	Falls Ck.	B.C.	Canada	137MA	684		28 000		1924
43	Appalachia	Hiwasee	N.C.	U.S.A.	150G	1 250	220 000	61 250		1943
44	Apishapa		Colo	U.S.A.	112E	600	315 000	18 500		1920
45	Arapuni	Waikato		New Zealand	210G	307	100 000	27 000		1928
46	Arghandab	Arghandab		Afghanistan	158E	1 740	4 700 000	394 000		1952
47	Ariel (Merwin)	Lewis	Wash	U.S.A.	313A	1 300	300 000	222 000		1931
48	Arkansas see Narrows									
49	Arimine	Wata	Hokuriku	Japan	350G	1 000	910 000	61 000	Granite	1956
50	Arkport	Canisteo	N.Y.	U.S.A.	112E	1 205				Proposed
51	Arno see Lago d'Arno									
52	Arnold			U.S.A.	110G		135 000	135 000		1920
53	Arrowrock	Boise	Idaho	U.S.A.	348G	1 100	585 000	286 000	Granite Porphyry	1915
54	Asagawara	Asagawa	Tohoku	Japan	131E	1 080	830 000	1 150	Tuff and Sandstone	1945
55	Asahi	Washita	Tokai	Japan	240A	700	120 000	10 000	Quartz Porphyry	Proposed
56	Asahigawa	Asahi	Chugoku	Japan	164G	690	220 000	40 000	Quartz Diorite	1954
57	Ashibetsugawa	Ishikara	Hokkaido	Japan	115G	1 080	220 000	34 000	Sandstone	1956
58	Ashidagawa	Ashida	Chugoku	Japan	157G	430	110 000	6 400	Granite	1957
59	Ashland (Reeder Gulch)	Ashland	Oregon	U.S.A.	112A	465	18 000	800	Granite	1928
60	Ashley (Flaming Gorge)	Green	Utah	U.S.A.	440G			3 940 000		Proposed
61	Ashokan (Olive Bridge)	Esopus	N.Y.	U.S.A.	252G	1 000	390 000	368 000	Shale	1911
62	Ashokan Dike	Esopus	N.Y.	U.S.A.	110E					1917
63	Aswan	Nile		Egypt	128G	6 420		794 000		1902
					144	6 500		1 960 000		(1912)
					174	6 970		4 040 000		(1934)
64	Aussois (Avrieux)	Doron de Termignon	Savoy	France	165A	340	95 000	61 000	Schist	1950
65	Austin	Colorado	Texas	U.S.A.	100GB				Limestone	1893
										(1915)
										(1940)
66	Austrian	Los Gatos Ck	Calif	U.S.A.	185E	700	937 000	6 000		1954
67	Avino			Italy			43 000	52 000		?
68	Avon	Avon	N.S.W.	Australia	230G	728	222 000	174 000	Sandstone	1927
69	Avrieux see Aussois									
70	Ayakita No.2 N	Oyodo	Kyushu	Japan	250G	625	275 000	27 000	Sandstone	1956
71	Ayakita No.2 S	Oyodo	Kyushu	Japan	224G	550	246 000	9 200	Sandstone	1956
72	Ayakita No.3	Oyodo	Kyushu	Japan	106G		31 000	160	Slate	1955
73	Badana	Gorzente		Italy	176G	722	130 000	3 800		1914
74	Bagnell see Osage									
75	Baitone	Lake Baitone	Brescia	Italy	108G	751	65 000	11,400		1931
76	Baker River	Baker	Wash	U.S.A.	250A	493	115 000	70 000	Limestone	1926
77	Bakhadda	Mina	Algeria		141RF	755	415 000	27 000		1933
78	Balch Diversion	Kings	Calif	U.S.A.	100A	300	4 800	200		1927

SUMMARIZED DATA OF DAMS OVER 100 FEET HIGH

TABLE 7 (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
79	Baldhill	Cheyenne	N.Dakota	U.S.A.	100E					1952
80	Baldwin Hills		California	U.S.A.	155E	730	859 000	930		1952
81	Balze di Santa Lucia	Salto		Italy	297G	568		210 000		1939
82	Ban			France	157G			1 500		1870
83	Barbellino	Serio	Bergamo	Italy	203G	840	178 000	13 000		1931
84	Barberine	Barberini	Valais	Switzerland	262G	950	270 000	31 000	Gneiss	1925
85	Barker (Nederland)	Boulder Creek	Colorado	U.S.A	172G	625	140 000	12 000	Granite	1909
86	Barmen see Herbringhauser									
87	Baroota		S.Australia	Australia	100E	1 000		5 000		1921
88	Barossa		S.Australia	Australia	112A	472	18 000		Shale	1903
89	Barrea	Sangro		Italy	205A	130	5 500	20 000		1952
90	Barrett	Cottonwood	California	U.S.A.	192G	750	140 000	43 000		1922
91	Barrett Chute	Madawaska	Ontario	Canada	100G	1 200	60 000			1942
92	Barryville	Delaware	Pa	U.S.A.						Proposed
93	Bartlett	Verde	Arizona	U.S.A.	287MA	800	182 300	182 000	Granite	1939
94	Bartlett's Ferry	Chattahoochee	Ga & Ala	U.S.A.	145G	634				1925
95	Bathie (Roseland)			France	344A	655	630 000	61 000		1955
96	Bau de Muggeris	Fiumendosa	Sardinia	Italy	196B	782		47 000		1949
97	Beardsley	M.F.Stanislaus	California	U.S.A.	275RF	1 150		97 000		1954
98	Bear Creek	E.F. Tuckasegee	N.Carolina	U.S.A.	223RF	800	1 000 000		Granite	1954
99	Bear River	Bear	California	U.S.A.	230RF	960	1 400 000	48 500	Granite	1953
100	Beaver	White	Arkansas	U.S.A.	203G	2 325	736 000	966 000		Proposed
101	Beaver Park		Colorado	U.S.A.	108RF					1910
102	Beetaloo		S.Australia	Australia	105G	690	60 000	3 100		1890
103	Bee Tree		N.Carolina	U.S.A.	177E		850 000			1932
104	Bekhma	Greater Zab		Iraq	110G					1952
105	Belice see Hone									
106	Belle Fourche	Owl Creek	S.Dakota	U.S.A.	115E	6 300	1 740 000	178 000	Shale Gumbo	1909
107	Belton	Leon	Texas	U.S.A.	200E	1 900		1 012 000		1954
108	Benbrook	Clear Fork Trinity	Texas	U.S.A.	130E	9 200	5 600 000	258 600	Limestone Alluvium	1952
109	Benevean			Scotland	106G	516	54 000	1 830		1951
110	Bengal	More		India				800 000		1950
111	Benhopai	Waihopai		New Zealand	120A	184	6 600	Silted Up		1927
112	Beni Bahdel	Tafna		Algeria	164MA	1 050		34 000		1937
113	Bever			Germany	180E	1 640				1937
114	Bhandardara see Wilson									
115	Bhakra	Sutlej		India	680G	1 600	5 120 000	3 500 000		1955
								7 400 000		
116	Bhatgar see Lloyd									
117	Big Bend	Missouri	S.Dakota	U.S.A.	100E			450 000		Proposed
118	Big Bend	Dan	Virginia	U.S.A.	140A	510	30 500			1940

119	Big Carson		Calif	U.S.A.	170E	1 100	800 000			1954
120	Big Cliff	N. Santiam	Oregon	U.S.A.	182G					1954
121	Big Creek No.1		Calif	U.S.A.	132G	800	59 000	52 000		1913
122	Big Creek No.4	San Joaquin	Calif	U.S.A.	248G	891	239 000	35 000	Granodiorite	1951
123	Big Creek No.6	San Joaquin	Calif	U.S.A.	140A	365	19 900	990		1923
124	Big Creek No.7	San Joaquin	Calif	U.S.A.	238G	954	215 000	35 000		1954
125	Big Dalton	Big Dalton Ck.	Calif	U.S.A.	165MA	480		950	Diorite	1929
126	Big Eddy	Spanish	Ontario	Canada	159G	1 200	60 000			1921
127	Big Eildon see Eildon									
128	Big Meadows	N.F. Feather	Calif	U.S.A.	130E	1 250		1 300 000		1926
129	Big Santa Anita	Big Santa Anita	Calif	U.S.A.	225A	590	76 200	1 400	Granite	1927
130	Big Tujunga	Big Tujunga	Calif	U.S.A.	249A	585	108 200	6 200	Granite	1931
131	Big Wichita (Wichita Falls) (Lake Kemp)		Texas	U.S.A.	100E	7 500	1 500 000	500 000		1923
132	Bills Brook	E. Farmington	Conn	U.S.A.	155E	2 500	1 600 000			1936
133	Bimont	Infernet		France	290A	850		30 000	Limestone	1951
134	Bin el Ouidane	Oued el Abid		Algeria	437A			1 100 000		1952
135	Bingham see Wyman									
136	Bingo	Kitayama	Kinki	Japan	220G		150 000	4 800	Sandstone & Slate	Proposed
137	Bionia (Le Mesce)	Bionia		Italy	205G	474	95 000	1 200		1917
138	Bissorte	Bissorte	Savoy	France	196G	1 780	392 000	33 000		1935
139	Bitobee see Chelsea									
140	Bixby	Moreau	S.D.	U.S.A.	115E	6 700				Proposed
141	Blackbrook			U.S.A.	108G	525				1905
142	Black Canyon	Payette	Idaho	U.S.A.	184G	1 134	79 000		Shale Basalt	1924
143	Blair Creek	Blair Creek	Missouri	U.S.A.	213G	1 688	909 000	1 449 000		Proposed
144	Blakeley Mountain	Ouachita	Arkansas	U.S.A.	205E	1 200		1 286 000		1954
145	Bleiloch see Saale									
146	Bliss	Snake	Idaho	U.S.A.	120G	700	110 000	1 000	Basalt	1949
147	Blowering	Tumut	N.S.W.	Australia	250G			800 000		Proposed
148	Blue Mountain	Petit Jean	Arkansas	U.S.A.	195E	2 800	1 640 000			1947
149	Blue Ridge (Catawba)		Ga. N.C.	U.S.A.	170E					1919
150	Bluestone	New	W. Va.	U.S.A.	180G	2 060	950 000	622 800	Shale Sandstone	1949
151	Bluff		Arizona	U.S.A.	315G	950		3 000 000		Proposed
152	Bober see Hauer									
153	Boca	Little Truckee	Nevada	U.S.A.	110E.RF	1 650	904 000	40 000	Alluvial	1940
154	Bonito		N.M.	U.S.A.	102RF	440	147 000			1931
155	Bonji	Hogami	Tohoku	Japan	134G	170	24 000	1 000	Andesite	1933
156	Bonneville	Columbia	Ore. Wash	U.S.A.	170G	1 250	617 000		Eagle Creek Tuff	1937
157	Bonny	S.F. Republican	Colorado	U.S.A.	130E	9 300	9 150	175 000	Alluvial	1951
158	Boone	S.F. Holston	Tenn	U.S.A.	160G	1 532		210 000		1952
159	Boonton	Rockway	N.J.	U.S.A.	114G	2 150	255 000	26 000	Triassic	1905
160	Boquilla, La	Conchos		Mexico	261G	840	390 000	2 240 000	Limestone	1915
161	Bort	Dordogne		France	393A	1 240	850 000	324 000	Schist Gneiss	1952

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
162	Boschi	Aveto		Italy	102G	262		700		1929
163	Boulder see Hoover									
164	Bou Hanifia	Oued el Hammam		Algeria	180RF	1 510	975 000	51 000	Fine Sand	1943
165	Bouquet Canyon	Bouquet Canyon	California	U.S.A.	213E	1 150	3 421 000	36 200		1934
166	Bowman Lake	Canyon Creek	California	U.S.A.	107RF	715	55 000	20 600		1875 (1)
167	Bowman North	Canyon Creek	California	U.S.A.	171RF	700	370 000	68 000		1927
168	Bowman South	Canyon Creek	California	U.S.A.	130A	373	22 500	65 000	Granite	1927
169	Box Canyon	Pend Oreille	Washington	U.S.A.	260G					Proposed
170	Boysen	Big Horn	Wyoming	U.S.A.	218E.RF	1 100	1 700 000	1 493 000	Bedrock	1953
171	Brasimone	Brasimone	Bologna	Italy	116G	557	52 000	5 000		1911
172	Brekke			Norway	131G					1924
173	Brembo (Lago Sandegnana)		Bergamo	Italy	115G			1 600		1924
174	Brena	Guadalquivir		Spain	197G			104 000		1935
175	Bridge Canyon	Colorado	Ariz, Nev	U.S.A.	637A.G	1 950	5 650 000	3 720 000	Granite Gneiss	Proposed
176	Bridgeport		Texas	U.S.A.	110E	2 000	1 390 000	870 000		1931
177	Bridge River (La Joie)	Bridge	B.C.	Canada	185RF	1 400	820 000	175 000		1950
178	Brilliant	Kootenay	B.C.	Canada	140G		212 000			1944
179	Bristol	Pemigawasset	N.H.	U.S.A.	1008	525				1927
										(1933)
180	Bromme, La	Brommat	Aveyron	France	142A	270	19 000		Granite	1932
181	Brownlee	Snake	Idaho	U.S.A.	370RF	1 300	6 476 000	1 000 000		Proposed
182	Bruno see Lavezza									
183	Buchanan	Colorado	Texas	U.S.A.	155MA	8 377		1 000 000	Gneiss Granitoid	1938
184	Buck's Creek Storage	Buck's Creek	California	U.S.A.	122RF	1 220	372 000	103 000		1927
185	Buck's Diversion	Buck's Creek	California	U.S.A.	112A	385	19 200	5 800	Granite	1927
186	Buell	Canyon Creek	California	U.S.A.	105E	550	144 000	170		1927
187	Buford	Chattahoochee	Georgia	U.S.A.	192E					1954
188	Bugg's Island see John H. Kerr									
189	Bullard's Bar	N.F. Yuba	California	U.S.A.	193A	520	49 000	31 500		1924
190	Bullileo	Bullileo	Linares	Chile	230E	860	1 560 000	48 500		1948
191	Bull Run	Bull Run	Oregon	U.S.A.	200G	1 000	230 000	37 000	Basalt	1928
192	Bull Shoals	White	Arkansas	U.S.A.	283G	2 256	2 100 000	5 400 000	Limestone Dolomite	1953
193	Bully Creek			U.S.A.	129RF	180		10 000		1913*
194	Burdekin Falls	Burdekin	Queensland	Australia	154G	2 800	1 073 000	4 100 000		Proposed
195	Burnhope		Durham	England	131E	1 770	1 600 000	5 280		1936
196	Burrator			England	106E	361				1899
197	Burrendong	McQuarie	N.S.W.	Australia	175E	3 500	5 500 000	520 000		1953
198	Burrinjuick	Murrumbidgee	N.S.W.	Australia	247G	765	320 000	772 000	Slate Granite	1913
199	Burton see Tallulah									
200	Buseo	Chera		Italy	169G					1914
201	Butte City		Montana	U.S.A.	120G	350		600		1892

202	Buttes		Arizona	U.S.A.	217G	970		400 000		Proposed
203	Caballo	Rio Grande	N.M.	U.S.A.	116E	4 558	1 244 200	346 000	Conglomerate	1938
204	Cabinet Gorge	Clark Fork	Idaho	U.S.A.	205A	600	126 000		Argillite	1952
205	Caprii	Zezere		Portugal	411A					Proposed
206	Cachuma	Santa Inez	Calif	U.S.A.	216E	3 400	6 980 000	210 000		1953
207	Caddoa see John Martin									
208	Cairn Curran	Loddon		Australia	130E	2 330	1 000 000	120 000		1952
209	Cajalco (Mathews)	Cajalco Creek	Calif	U.S.A.	193E	2 584	3 600 000	100 000	Granite	1938
210	Cala			Spain	150G					1935
211	Calandrino see Giacopiane									
212	Calaveras	Calaveras Creek	Calif	U.S.A.	215E	1 300	3 460 000	100 000		1925
213	Calderwood	Little Tennessee	Tennessee	U.S.A.	230A	897	400 000	34 000	Arkose Schist	1930
214	Caliraya	Calaraya		Philippines	138E			63 000		1941
215	Calitzdorp	Nels	Union of	South Africa	112G	700	70 000	4 700		1925
216	Calles	Santiago		Mexico	207A		60 000	276 000		1928
217	Callihue	Chimbarongo	Colchagua	Chile	141E	2 015	2 950 000	243 000		1957
218	Camarasa	Noguera Pallaresa		Spain	333G	460	283 000	89 000	Limestone	1920
219	Camarillas	Segura		Spain	118G			32 000		1935
220	Campliccioli	Troncone	Novara	Italy	238G	853	310 000	7 200	Gneiss	1929
221	Camp Luis Obispo	Salinas	Calif	U.S.A.	185A	600	45 000	45 000		1942
222	Campo Secco	Antrona	Novara	Italy	110G	1 140	72 000	47 700	Gneiss	1930
223	Campotosto			Italy	147G			65 000		1949
224	Cancano di Fraele	Upper Adda	Sondrio	Italy	175MA	919		17 000		1929
225	Caneadea	Caneadea	N.Y.	U.S.A.	140A	620	66 000	28 000		1928
226	Canning	Canning	West Aust	Australia	218G	1 534	356 000	75 000		1936
227	Cannonball	Cannonball	N.D.	U.S.A.						Proposed
228	Cannonsville	W.Branch Delaware	Pa.	U.S.A.						Proposed
229	Canyon ferry	Missouri	Montana	U.S.A.	225G	1 000	455 000	2 051 000		1954
230	Caonillas	Caonillas		Puerto Rico	235G	815	230 000	49 000	Gran. Andesite	1948
231	Cap de Long see Pragneres									
232	Capilano	Capilano	B.C.	Canada	325A			48 000		1954
233	Cardanello	Liro	Sondrio	Italy	248G	787	162 000	22 700		1931
234	Cardenas (El Palmito)	Nazas		Mexico	302E	787	7 000 000	3 263 000		1948
235	Careser	Lake Careser		Italy	196G	1 465	248 000	12 400		1938
236	Caritaya	Caritaya	Tarapaca	Chile	126R.F	510	380 000	34 000		1935
237	Carite	Carite		Puerto Rico	104E	520	200 000	11 300		1913
238	Carmel see San Clemente									
239	Carmen			Chile	246RF			89 000		1929
240	Carpenter	Ouachita	Arkansas	U.S.A.	115G	1 164		100 000		1931
241	Cascade	Cascade	Alberta	Canada	116E	1 900	850 000			1942
242	Casere	Brembo		Italy	131G	312		3 600		1947
243	Castello	Varaita		Italy	230G	778		10 000		1943
244	Casteinau - Lassouts	Lot		France	170G	595	144 000	15 000		1949

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
245	Castelo do Bode	Zezere		Portugal	377A	1 145	563 000	867 000		1952
246	Castiletto			Switzerland	280E					1953
247	Castillion	Verdon	Basses Alpes	France	325A	600	218 000	121 500	Limestone	1948
248	Castrola			Italy	226MA	680				1923
249	Cataract	Cataract	N.S.W.	Australia	187G	810	148 000	76 000	Sandstone	1907
250	Catavi			Bolivia	100E			15 000		1915
251	Catawba see Blue Ridge									
251	Cat Creek	Cat	Nevada	U.S.A.	120A	237	6 000			1931
252	Cauvery see Mettur									
253	Cavite			Puerto Rico	105E					1920
254	Cave Creek	Trib Salt	Arizona	U.S.A.	107MA	1 732	18 700	14 000	Cemented Gravel & Rock	1922
255	Cecita			Italy	180A					1952
256	Cedar Bluff	Smoky Hill	Kansas	U.S.A.	136E	12 570			Shale	1951
257	Cedar Cliff	E.F.Tuckasegee	N.Carolina	U.S.A.	140RF					1952
258	Cedar River		Washington	U.S.A.	200G	1 000				1915*
259	Ceira			Portugal	123A	197	9 200	1 070		1949
260	Center Hill	Caney Fork	Tennessee	U.S.A.	246GE	2 172	336 000 Concrete 3 534 000 Earth and Concrete	2,092 000	Limestone	1949
261	Ceppo Morelli	Anza	Novara	Italy	147A	120	12 000	400		1930
262	Ceresole Reale	Orco	Piedmonte	Italy	158G	980	162 000	27 000	Gneiss Granite	1930
263	Chamarajasagar		Mysore	India	152G	1 400	17 300	70 000		1933
264	Chambal	Chambal		India	200G					1955
265	Chambon	Romanche	Isere	France	450G	1 080	392 000	13 000	Gneiss Schist Limestone	1935
266	Chanakpur		Bombay	India	140G	1 506	81 000	34 000		1911
267	Charleston		Arizona	U.S.A.	158G	1 150		238 000		Proposed
268	Chartrain (Tache)	Tache		France	175G			3 600		1892
269	Chastang	Dordogne		France	250AG	1 200	330 000	27 000		1950
270	Chatra	Kosi		India	750G			10 600 000		Proposed
271	Chatuge	Hiwassee	Ga,N.C.	U.S.A.	140E	2 850	2 300 000	243 000	Schist Gneiss	1943
272	Chaudanne			France	246A	295	29 000	5 000		1949
273	Chavanon	Chavanon	Puy de Dome	France	279G	1 180	445 000	170 000	Gneiss	1925
274	Cheat Haven	Cheat	W.Pa	U.S.A.	100G		180 000	87 000		1920
275	Cheeseman	S.Platte	Colorado	U.S.A.	236G	710	103 000	80 000	Granite	1904
276	Chelsea (Bitobee)	Gatineau	Quebec	Canada	100G	1 600	170 000	1 980 000		1927
277	Cheoah	Little Tennessee	N.Carolina	U.S.A.	230G	770	200 000	31 000		1919
278	Cher	Cher		France	154G	323		21 000		1907
277	Cherokee	Holston	Tennessee	U.S.A.	175GE	6 760	3 940 000	807 000		1942
278	Cherokee Bluff see Martin									
279	Cherry Creek	Cherry Creek	Colorado	U.S.A.	140E	14 300	14 650 000			1950
280	Cherry Valley	Cherry	California	U.S.A.	315E.RF	2 600	6 500 000	270 000	Granite	1954
281	Chet Harritt	Quail Canyon	California	U.S.A.	182E	1 146	1 640 000	10 500		1952

282	Chicauma	Maipo	Santiago	Chile	132E	2 200	1 570 000	324 000		Proposed
283	Chichester	Chichester	N.S.W.	Australia	135G	834	119 000	18 300		1924
284	Chickamauga	Tennessee	Tennessee	U.S.A.	129GE	5 800	3 127 600	705 000	Limestone	1940
285	Chief Joseph	Columbia	Washington	U.S.A.	238G	2 260	981 000		Granite	1955
286	Chikari	Chikari	Kinki	Japan	132G	350	50 000	9 500	Quartz Porphyry	1931
287	Chiusella (Gole di Gurzia)	Chiusella	Turin	Italy	154A	259	14 000	1 300		1926
288	Chorrera del Guayabo see El Guayabo									
289	Chubuk see Cubuk									
290	Churchill	Kromme	Near Pt Eliz	Union S. Africa	130MA.B	700	100 000	29 000	Solid Quartzites	1947
291	Chute-a-Caron	Saguenay	Quebec	Canada	200G	3 015	460 000			1931
292	Cignana	La Plana		Italy	177G	1 318	200 000	13 000		1929
293	Cimarron see Eagle's Nest									
294	Cingino	Sangoria	Novara	Italy	146G	486	66 000	4 000	Fissured Gneiss	1931
295	Cismon	Cismon		Italy	114A	118		3 200		1910
296	Claerwen			Wales	182G	1 066	400 000	39 800	Argillaceous Shale	1952
297	Clark	Butler's Gorge	Tasmania	Australia	150A					1950
298	Clark Hill	Savannah	Georgia	U.S.A.	200GE	5 670	1 000 000		Granite	1952
299	Claytor	New	Virginia	U.S.A.	132G	1 140	217 000		Dolomite	1939
300	Clear Creek (Continental)	Clear Creek	Colorado	U.S.A.	100E	340		32 000		1926
										(1935)
301	Clearwater	Black	Missouri	U.S.A.	143E	4 225	5 300 000			1949
302	Clearwater	Cearwater	Idaho	U.S.A.	518G	1 400		4 600 000	Rock	Proposed
303	Cle Elum	Cle Elum	Washington	U.S.A.	130E	750	1 380 000	436 000	Glacial Fill	1937
304	Cleuson			Switzerland	285B	1 375	365 000	16 000		1950
305	Cluanie			Scotland	108G	2 730	210 000	140 000		Proposed
306	Cobble Mountain		Mass.	U.S.A.	246E	800	1 800 000	812 000		1932
307	Coconino		Arizona	U.S.A.	205G	350		1 700 000		Proposed
308	Codelago			Italy	120RF		70 000	13 500		1922
309	Coghinas	Coghinas	Sardinia	Italy	190G	610	144 000	196 000	Granite	1929
310	Cogoti	Huatulame	Coquinbo	Chile	272RF	525	1 760 000	121 500		1943
311	Coke County	Colorado	Texas	U.S.A.	138E	14 300		670 000		Proposed
312	Colombera	Tardano	Sondrio	Italy	197G	230	37 000	2 400	Gneiss	1924
313	Colombo	Borleggia		Italy	102G	426		1 800		1929
314	Combamala	Combamala	Cuneo	Italy	128B	318	13 000	100		1916
315	Comelico	Piave	Belluno	Italy	220A	360	39 000	500		1931
316	Comerio	La Plata		Puerto Rico	128B	480	40 000	4 900		1913
317	Conchas	S. Canádian	N.M.	U.S.A.	235G	1 250	7 300 000	800 000	Shale & Sandstone	1939
318	Concho	N. Concho	Texas	U.S.A.	130E	7 miles		437 000		1953
319	Concow (Lake Willenor)	Lake Willenor	Calif.	U.S.A.	100A	275	6 300	8 200		1925
320	Conemaugh	Conemaugh	Pa.	U.S.A.	170G	1 290	333 600	274 000	Sandstone Shale	1953
321	Conklingville (Sacandaga)	Conklingville	N.Y.	U.S.A.	100E	1 000	790 000	690 000		1930
322	Conn Creek	Conn Creek	Calif.	U.S.A.	116E	650	500 000	31 000		1948
323	Conowingo	Susquehanna	Maryland	U.S.A.	105G	4 648	435 000	70 000	Rock	1928
324	Continental see Clear Creek									

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
325	Cooby Creek	Cooby Creek	Queensland	Australia	103RF	678	127 000	18 700		1941
326	Coolidge	Gila	Arizona	U.S.A.	249MD	600	204 000	1 300 000		1929
327	Copco No. 1	Klamath	Oregon	U.S.A.	132G	420	70 300	77 000		1922
328	Copper Basin	Copper Basin	California	U.S.A.	190A	265		22 000		1938
329	Coquitlam		B.C.	Canada	100E	1 200	545 000	180 500		1920
330	Corangiu No. 2	Bauvilixi		Italy	146G	538		3 200		1934
331	Cordeaux		N.S.W.	Australia	182G	1 327	218 000	76 000	Sandstone	1926
332	Corfino	Corfino	Lucca	Italy	125A	279		600		1914
333	Costilla		Colorado	U.S.A.	120E	600		15 000		1917
334	Cotatay	Trib Ondenon		France	144G	509		700		1904
335	Cottage Grove	Coast Fork	Oregon	U.S.A.	100GE	2 000			Tuff	1948
336	Couesque	Truyere		France	215A	892	100 000	45 000	Granite	1950
337	Cougar Creek	S.F. McKenzie	Washington	U.S.A.	335G					Proposed
338	Cove Creek see Norris									
339	Coyote	Coyote Creek	California	U.S.A.	140E	1 000	1 130 000	27 800		1936
340	Crane Valley	N.F.SanJoaquin	California	U.S.A.	145E	1 800	907 000	45 000	Granite	1910
341	Cresta	N.F. Feather	California	U.S.A.	120G	370	60 000	4 400		1949
342	Crooked Creek	Crooked Creek	Pa	U.S.A.	143E	1 480	1 450 000			1940
343	di Crosis	Torre	Udine	Italy	131G			Silted Up 140		1901
344	Cross River	Croton	New York	U.S.A.	170G	772	161 000	33 000		1908
345	Croton Falls	W.Branch Croton	New York	U.S.A.	167G	1 100	260 000	45 000		1911
346	Cruz del Eje			Argentina	124B	2 680	223 000			1944
347	Cruz de Piedra			Argentina	118B	384				1942
348	Crystal	Gunnison	Colorado	U.S.A.	595G			510 000		Proposed
349	Crystal Springs see San Mateo									
350	Cubuk	Near	Ankara	Turkey	190G	830	130 000	9 800		1935
351	Cucharas	Cucharas	Colorado	U.S.A.	125RF	550	195 000	50 000		1911
352	Culbertson	Republican	Nebraska	U.S.A.	100E	8 000				Proposed
353	Culimo	Quilimari	Coquimbo	Chile	119E	760	515 000	6 950		1935
354	Cummum			India	102E					1929
355	Curecanti	Gunnison	Colorado	U.S.A.	360G			940 000		Proposed
356	Cushman No. 1	N.F.Skokomish	Washington	U.S.A.	275A	1 100	90 000	480 000	Basalt	1925
357	Cushman No. 2 (Potlatch)	N.F. Skokomish	Washington	U.S.A.	240A	500	38 000			1930
358	Daer			Scotland	130E	2 580	2 160 000	20 100		1950
359	Daijoike (Oshiro)	Ayaga	Kinki	Japan	120E	490	200 000	700	Sandstone	1926
360	Dale Hollow	Obey	Tennessee	U.S.A.	200G	1 717	500 000	1 700 000	Limestone	1943
361	Dales Dike			England	102E	1 254		2 600	Alluvial	1864
362	Dalles	Columbia	Ore,Wash	U.S.A.	100G					1957
363	Dardennes			France	118G	1 500	107 000			1912
364	Davis	Colorado	Ariz,Nev	U.S.A.	138E.RF	1 600	3 980 000	1 800 000	Granite rhyolite	1953
365	Davis Bridge	Deerfield	Vt, Mass	U.S.A.	200E	1 250	1 900 000	116 000		1924

366	Dezi	Kitayama	Kinki	Japan	390G		750 000	57 000	Slate & Sandstone	Proposed
367	Deadwood	Deadwood	Idaho	U.S.A.	165A	750	55 000	164 000	Granite	1930
368	Deer Creek see Scott's Flat									
369	Deer Creek	Provo	Utah	U.S.A.	235E	1 304	2 809 000	147 000	Sandst. Limest. Clay	1941
370	Deerfield		S.D.	U.S.A.	100E	800	380 000			1950
371	Delta	Mohawk	N.Y.	U.S.A.	100E	1 100		63 000		1910
372	Denison	Red	Tex-Okla	U.S.A.	165E	17 500	17 600 000	5 820 000	Limestone	1944
373	Derwent			England	212G	1 100	364 000	8 000	Shale Sandstone	1920
374	Des Joachims	Ottawa	Ont, Que	Canada	190G	2 400	489 000	1 100 000	Gneiss Granite	1950
375	Detroit	N. Santiam	Oregon	U.S.A.	463G	1 580	1 500 000	455 000	Andesite Diorite	1953
376	Devil's Gate	Arroyo Seco	Calif	U.S.A.	115G	300	34 000	6 700	Granite	1920
377	Diablo	Skagit	Washington	U.S.A.	389A	1 142	350 000	90 000	Granite	1930
378	Di Crosis see Crosis									
379	Diemeltalsperre			Germany	112G	636		16 000		1923
380	Dique La Vina		Cordoba	Argentina	344A		223 000	185 000		1943
381	Dihue	Longavi	Linares	Chile	264E	990				Proposed
382	Dillon	Licking	Ohio	U.S.A.	118E	1 350	3 250 000	163 000		1950
383	Dissueri	Gela		Italy	135G	500		9 700		1950
384	Dix (Harrodsburg)	Dix	Kentucky	U.S.A.	250R.F	910	1 750 000	300 000		1924
385	Dixence	Dixence		Switzerland	285G	1 500	552 000	40 000		1936
386	Dixon		Colo	U.S.A.	220E	1 200	3 000 000	137 000		1949
387	Dnieprostroy	Dnieper		Russia	200G	5 000	1 600 000	900 000		1932
388	Dodder			Ireland	115E					1900
389	Dogawa	Dogawa	Kyushu	Japan	212G	510	180 000	28 000	Graywacke	1954
390	Doiras	Navia		Spain	290G					1935
391	Donets (2 dams)			Russia						Proposed
392	Doniphan	Current	Missouri	U S.A.	147G	4 010	709 000	1 449 000		Proposed
393	Don Martin (Nuev a Espagna)	Salado		Mexico	105E	4 049	2 500 000	1 124 000	.	1931
394	Donnell's Dam	M.F. Stanislaus	Calif	U.S.A.	285RF	730		64 500		Proposed
395	Don Pedro	Tuolumne	Calif	U.S.A.	284G	1 040	296 500	289 000		1923
396	Dorena	Row	Oregon	U.S.A.	147E	3 300	3 300 000	79 000	Tuff Andesite Agglom.	1949
397	Dos Bocas	Rio Grande de Arecibo		Puerto Rico	188G	1 317	301 400	32 000		1942
398	Douglas	French Broad	Tennessee	U.S.A.	110G	1 682	536 000	1 260 000	Dolomite	1944
399	Douglas see Preie, La									
400	Doustre			France	165A			25 000		1951
401	Dover	Muskingum	Ohio	U.S.A.	100G	820	100 000		Shale Limestone	1937
402	Downsville	Delaware	N.Y.	U.S.A.	200E	2 700	8 200 000	450 000	Greywacke Sandstone	1954
403	Dozangawa (Yanase)	Yoshino	Shikoku	Japan	173G	475	185 000	25 000	Schist.	1953
404	Drinkwater	Trib. San Francis-quito Creek	Calif	U.S.A.	105E	448	107 000	92		1923
405	Druids Lake		Maryland	U.S.A.	119E			1 300		1871
406	Dunajee			Poland	162G	1 640				1939
407	Eagle Gorge	Green	Washington	U.S.A.	190G					Proposed
408	Eagle Mountain	W.F. Trinity	Texas	U.S.A.	100E		2 360 000			1931

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
409	Eagles' Nest (Cimarron)	Cimarron	N.M.	U.S.A.	120A	300	26 000	78 000	Granite	1917
410	East Beaver Creek		Colorado	U.S.A.	100E	580				1932
411	East Canyon	East Canyon	Utah	U.S.A.	190A	290	16 000	28 000	Limestone Conglom.	1916
412	East Fork	Hood	Oregon	U.S.A.	100G	1 200	5 000			1949
413	East Park	E.F. Stoney Ck	California	U.S.A.	100G	250	16 000	51 000	Conglomerate	1911
414	East Sydney	Oulcout	New York	U.S.A.	128G	2 000				1950
415	Echapre			France	121G	541		800		1898
416	Echo	Weber	Utah	U.S.A.	125E	1 800	1 400 000	74 000	Clay Gravel	1929
417	Echo Park	Green	Colorado	U.S.A.	525G	900	2 770 000	6 460 000		Proposed
418	Edertalsperre	Weser		Germany	157G	1 310	390 000	164 000		1913
419	Eel River see Scott									
420	Eguzon	Creuse		France	200G	1 000	274 000	44 000		1927
421	Eildon	Goulburn&		Australia	250E	3 000	13 000 000	2 350 000	Rock	1927
		Delatite								(1953)
422	El Azucar (Gomez)	San Juan		Mexico	130E	2 000	6 213 000	1 702 000		1943
423	El Capitan	San Diego	California	U.S.A.	240E	1 200	2 680 000	118 000		1934
424	Elephant Butte	Rio Grande	N.M.	U.S.A.	306G	1 155	605 000	2 219 000	Sandstone	1916
425	Eleven Mile Canyon	S.Platte	Colorado	U.S.A.	112A	400	50 000	11 500		1932
426	El Fuerte	Fuerte	Sinaloa	Mexico	300G			25 000 000		1940
427	El Guayabo (Chorrera del Guayabo)	Lempa		El Salvador	195G	1 500	230 000	144 000		1955
428	El Palmito see Cardenas									
429	El Vado	Chena	N.M.	U.S.A.	212RF	1 300	607 000	198 000	Shale Sandstone	1935
430	Emigrant	Emigrant	Oregon	U.S.A.	127A	430	15 200	8 000	Sandstone	1924
431	Enchanet	Maronne		France	246A	755	85 000	73 000		1950
432	Encino	Encino Creek	California	U.S.A.	127E	1 027	501 000	3 300		1924
433	Enders	Frenchman Creek	Nebraska	U.S.A.	110E	2 600	1 300 000	83 000	Alluvium	1951
434	Englebright (Upper Narrows)	Yuba	California	U.S.A.	275A	1 157	325 000	70 000	Quartz Diorite	1940
435	Englewood	Stillwater	Ohio	U.S.A.	110E	¼ 700	3 500 000	209 000		1921
436	English		California	U.S.A.	131RF	331				1856*
437	Enneppe	Near	Altenvorde	Germany	134G	880	124 000	8 500		1904
438	Ermal			Portugal	131G	558				1950
439	Errochty	Errochty		Scotland	130B	1 260	205 000	24 000		1952
440	Escaba			Argentina	285B		325 000			1948
441	Escondido Creek see Lake Wohlford									
442	Esperanza			Mexico	137G	580	55 000			1920
443	Etzel			Switzerland	108G	416	37 000	74 000		1937
444	Eupen			Belgium	190G	900				1948
445	Excame	Tlaltenango		Mexico	126E.RF	2 560				1951
446	Exchequer (Lake McClure)	Merced	California	U.S.A.	326G	955	350 000	289 000		1926
447	Fabreges			France	167A	547	47 000	5 800		1947

451	Fairmont	Antelope Valley	Calif	U.S.A.	121E	4 300	697 000	7 500		1912
452	Falcon	Rio Grande	Texas	USA/Mexico	150E	26 294	29 400 000	4 085 000		1954
453	Feather River	Feather	Calif	U.S.A.	710G			3 500 000		Proposed
454	Fernworthy			England	137G					1947
455	Fiastrone	Fiastrone	Macerata	Italy	281A	826	200 000			1954
456	Fifteen Mile Falls	Connecticut	N.H. Vt.	U.S.A.	1176E	850			Schist	1930
457	Fisch (Lago del Toggia)	Toce	Novara	Italy	108MA		2 400			1924
458	Fisha' Eddy	Delaware	Pa	U.S.A.			470 000			Proposed
459	Flaming Gorge see Ashley									
460	Flatbrook	Delaware	N.J. Pa	U.S.A.			240 000			Proposed
461	Flathead (Kerr)	Flathead	Montana	U.S.A.	200A	630	50 000	1 500 000	Argillite	1937
462	Florence Lake	S.F.San Joaquin	Calif	U.S.A.	149MA	3 160	57 000	64 000		1926
463	Folsom	American	Calif	U.S.A.	280E.G	23 300	20 300 000	1 000 000	Schist	1954
464	Fontana	Little Tennessee	Tennessee	U.S.A.	470G	1 600	2 800 000	1 600 000	Slate Quartzite	1944
465	Fordyce		Calif	U.S.A.	140RF	970	417 000	47 000		1873
	(Reconstruction of old dam)									(1926)
466	Forte Buso	Travignolo		Italy	328GA	1 080	340 000	24 000		1952
467	Fortezza	Isarco		Italy	163A	178		1 240		1940
468	Fort Gibson	Grand	Oklahoma	U.S.A.	135G	2 900	770 000	1 287 000	Shale Limestone	1953
469	Fort Loudon	Tennessee	Tennessee	U.S.A.	122GE	4 190	2 358 000	415 500		1943
470	Fort Peck	Missouri	Montana	U.S.A.	270E	9 000	12 400 000	10 000 000	Shale	1940
471	Fort Randall	Missouri	S.Dakota	U.S.A.	160E	10 000	2 800 000	8 200 000	Chalk Alluvium	1954
472	Foster Creek	Columbia	Washington	U.S.A.	220G					Proposed
473	Francisco J. Madero see Las Virgenes									
474	Franklin Falls	Pemigewasset	N.H.	U.S.A.	136E	1 740	3 000 000			1949
475	French Lake	Canyon Creek	Calif	U.S.A.	100RF	200		12 500		1859
476	Fresno	Milk	Montana	U.S.A.	109E	1 855	1 693 000	127 000		1940
477	Friant	San Joaquin	Calif	U.S.A.	320G	3 480	2 134 000	520 000	Schist	1942
478	Frog Tanks see Lake Pleasant									
479	Fuensanta	Segura		Spain	272G			192 000		1935
480	Fujinose	Kawahami	Kyushu	Japan	369G		465 000	36 000	Granite	Proposed
481	Fujise		Kyushu	Japan	218G					1955
482	Fujiwara	Tone	Kanto	Japan	318G	1 070	1 000 000	28 000	Silicified Tuff	Proposed
483	Fukasaka	Gombei	Chugoku	Japan	101E	810	274 000	900	Conglom.	1924
484	Furens	Furens		France	184G	330	52 000	1 300	Mica Schist	1866
485	Furio	Candigliano		Italy	141A	164		1 400		1921
486	Furman Shoals	Oconee	Georgia	U.S.A.	105E	4 000				1953
487	Fusenko			Korea	250G	1 308	640 000		Gneiss	1930
488	Fusino	Roasco	Sondrio	Italy	192G	236		160		1924
489	Futakomochi	Oyaki-Kiso	Tokai	Japan	262G		700 000	40 000	Slate	Proposed
490	Gabiet		Torino	Italy	135G	790	104 000	4 000		1922
491	Gal Oya	Gal Oya		Ceylon	120E	3 600	5 000 000	775 000	Gneiss Granite	1955
492	Gangheri see Turrite									

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
493	Garcia			Mexico	160G			104 000		1928
494	Garrison	Missouri	N.Dakota	U.S.A.	210E	12 000	75 000 000	23 000 000	Fort Union Clay	1956
495	Garza (Little Elm)	Trinity	Texas	U.S.A.	125E	33 300	12 500 000	1 016 000		1954
496	Gerzas	Vaca		Puerto Rico	202E	910	1 031 000	4 700		1943
497	Gate Creek		Washington	U.S.A.	210G			300 000		Proposed
498	Gatun	Chagres		Panama	115E	7 700	22 960 000	4 413 000		1912
499	Gavin's Point	Missouri	S.Dakota	U.S.A.	100E			170 000		1955
500	Gediz	Gediz	Anatolia	Turkey	230E					1954
501	Gedre (Gloriettes)	Estanbe	Pyrenees	France	131A	505	2 600	2 200		1949
502	Geigenbach (Voigtland)			Germany	138G	900	144 000	2 600		1908
503	Gela		Sicily	Italy	135RF					1951
504	Gelmer		Oberhasli	Switzerland	114G	1 210	108 000	1 050	Granite	1931
505	Gembong			Java	100E	1 640	288 000			1933
506	Gemelli	Brembo	Bergamo	Italy	113G	738	42 000	5 800		1931
507	Gem Lake	Rush Creek	California	U.S.A.	112MA	640	8 500	17 200		1916
508	Gene Wash	Gene Wash	California	U.S.A.	136A	383	14 000	6 300		1937
509	Genissiat	Rhone		France	340G	650	875 000		Limestone	1948
510	Genkel		Agger Region	Germany	170RF					1953
511	Gerlos			Austria	121A					1950
512	Germantown	Twin Creek	Ohio	U.S.A.	100E	1 210	865 000	73 000		1921
513	Ghost River	Bow	Alta	Canada	108G	4 975				1929
514	Ghrib			Algeria	213RF	1 310	860 000	202 000		1932
515	Giacopiane	Calandrino	Genova	Italy	146G	505		3 800		1925
516	Gibraltar	Santa Inez	California	U.S.A.	185A					1920
										(1949)
517	Gibson	N.F. Sun	Montana	U.S.A.	195A	900	168 000	105 000	Crystal Limestone	1928
518	Gilbert	Buffalo	Arkansas	U.S.A.	218G	3 700	944 000	767 000		Proposed
519	Gilbertsville see Kentucky									
520	Gilboa	Schoharie Creek	New York	U.S.A.	160G	1 300	450 000	60 000		1927
521	Gileppe	Gileppe		Belgium	158G	771	325 000	10 000		1875
522	Girotte	Isere		France	114MA	1 600	157 000	40 000		1948
523	Glacier View	N.Fork Flathead	Montana	U.S.A.	416E	2 100				Proposed
524	Glenbawn	Hunter	N.S.W.	Australia	230E	3 000	5 000 000	120 000		1954
525	Glen Canyon	Colorado	Arizona	U.S.A.	580G		5 190 000	26 000 000		Proposed
526	Glenmaggie	MacAlister	Victoria	Australia	100G		80 000	150 000		1929
527	Gleno	Gleno Creek		Italy	164MA	730		5 000	Porphyry	1922*
528	Glen Shira	Shiva		Scotland	130B	2 250	305 000	18 000		1952
529	Glenville	W.F.Tuckasegee	N.Carolina	U.S.A.	150E RF	900	1 060 000	71 000		1941
530	Glines Canyon	Elwha	Washington	U.S.A.	200A	1204 ASS Total	20 000	43 000		1927
531	Glorbach	Near Breckerfeld		Germany	105G	550	43 000	1 600		1904
532	Gloriettes see Gedre									

533	Gluder see Sengbach									
534	Gnioure			France	236G	860	288 000	22 000		1950
535	Godefroy	Beverais Aranbear Exit	N.Y.	U.S.A.				840 000		Proposed
536	Goldentraum			Germany	115G	520				1930
537	Gole di Gurzia see Chiusella									
538	Gomez see El Azucar									
539	Goose Creek		Idaho	U.S.A.	145E	1 050		73 000		1913
540	Goose Neck	S.F.S. Platte	Colorado	U.S.A.	210RF				Granite	1900(2)
541	Gordon Valley (Lake Curry)	Gordon Val. Ck.	Calif	U.S.A.	107E	600	272 000	10 000		1926
542	Gorisan	Hachirou	Chugoku	Japan	154G	450			Granite	Proposed
543	Gorzente (Lago Lungo)	Gorzente	near Genoa	Italy	148G	492		3 000	Serpentine	1883
										(1903)
544	Gour Noir			France	131A	328	20 000	3 600		1948
545	Granby		Colorado	U.S.A.	295E	885	2 901 300	546 000		1950
546	Gran Chaurfas	Mekarra		Algeria	131G	508	13 000	13 000	Limestone	1884*
547	Grand Coulee	Columbia	Washington	U.S.A.	550G	4 173	10 493 000	9 517 000	Granite	1942
548	Grand Dixence		Valais	Switzerland	912G		6 100 000			1955
549	Grand Rhye			France	148G					1926
550	Grapevine	Denton Creek	Texas	U.S.A.	137E	12 850	6 700 000	263 200		1953
551	Grass Valley	S.F. Feather	Calif	U.S.A.	150RF					1954
552	Grassy Lake	Grassy Creek	Wyoming	U.S.A.	108E	1 170	538 000	15 200	Rhyolite	1939
553	Green Mountain	Blue	Colorado	U.S.A.	267E	1 060	4 369 000	147 000	Shale Trach. Porph.	1943
554	Green's Ferry	Little Red	Arkansas	U.S.A.	192G	1 295	516 000	981 000		Proposed
555	Greenville		S.C.	U.S.A.	140E					1920*
556	Grenada	Yalobusha	Miss.	U.S.A.	100E		7 700 000			1950
557	Griesel (Spitallamm)	Aar	Oberhasli	Switzerland	374GA	810	445 000	81 000	Granite	1931
558	Grizzly Creek Forebay	Grizzly Creek	Calif	U.S.A.	120A	500	17 000	1 200	Granite	1927
559	Guadalupe	Guadalupe Creek	Calif	U.S.A.	142E	695	500 000	3 500		1935
560	Guajabal			Puerto Rico	120B	920	44 000	10 000	Diorite	1913
561	Guayabo see El Guayabo									
562	Guayataca			Puerto Rico	110E	900		28 000	Limestone	1924
563	Guerde del Pozo	Duero		Spain	108G			130 000		1935
564	Guerledan	Blavet	Morbihan	France	150G	700	135 000		Quartzite	1930
565	Guernsey	N. Platte	Wyoming	U.S.A.	105E	560	512 000	48 000	Sandstone Limestone	1928
566	Guineo	Toro Negro		Puerto Rico	125RF	565		2 180		1931
567	Gulf Island -	Androscoggin	Maine	U.S.A.	110GE	2 600	90 000	92 000		1925
568	Gyobyu	Gyobyu Chaung		Burmah	150E	700	370 000	62 300		1940
569	Habra	Habra		Algeria	125G	1 476			Calcareous Grit	1873*
570	Habu	Yahagi	Tokai	Japan	210G	1 000	353 000	13 100	Granite-Schist	1957
571	Hachiden	Kanden		Formosa	184E	4 300	6 900 000	126 000	Tertiary Deposit	1929
572	Hamiz	Hamiz		Algeria	134G	532				1885
					200)					(1932)
573	Hansen	Tujunga Wash	Calif	U.S.A.	122GE	10 509	12 900 000	36 000	Sandstone	1940

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE 7 (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
574	Hardy	Muskegon	Michigan	U.S.A.	120E	3 000	1 385 000		Glacial Drift	1931
575	Harlan County	Republican	Nebraska	U.S.A.	106E	11 830	13 000 000	850 000	Chalk	1953
576	Harrodsburg see Dix									
577	Harrowgate (Nidd)			England	100G	900				1930
578	Harsi		Gwalior	India	104E	7 000	2 580 000	155 000		1937
579	Harspranget	Stora Lulealv		Sweden	148RF	2 560				1951
580	Hartebeestpoort	Crocodile	Transvaal	U of S.Africa	195A	460	145 000	136 000	Quartzite	1923
581	Hasper	Haspe		Germany	111G	850	74 000	1 600		1904
582	Hatori	Isunuruma	Tohoku	Japan	120E	560	380 000	22 000	Tuff	1952
583	Hatsunagi	Oi	Tokai	Japan	289G		500 000	35 000	Slate	Proposed
584	Hauser	Missouri	Montana	U.S.A.	132G	490	85 000			1912
585	Haweswater			England	144B	1 540				1940
586	Heart Butte	Heart	N.Dakota	U.S.A.	135E	1 850	1 129 000	428 000		1950
587	Hell's Canyon	Snake	Ore, Idaho	U.S.A.	320RF	640	4 576 000	11 200	Basalt	Proposed
588	Helms	King	California	U.S.A.	290RF	940		102 500		Proposed
589	Hemet	S.F.San Jacinto	California	U.S.A.	135G	324	32 300	14 000	Granite	1895 (3)
590	Henner (Meschede)			Germany	124G	1 200	138 000	9 000		1905
591	Henshaw	San Luis Rey	California	U.S.A.	123E	650	500 000	203 000		1923
592	Herbringhauser (Barmen)			Germany	112G	700	53 000	1 600		1900
593	Higashi-Sugihara	Ibi-Kiso	Tokai	Japan	282G		610 000	53 000		Proposed
594	Hijar 1	Martin		Spain	141G	236		5 000		1880
595	Hijar 2	Martin		Spain	141G			9 000		1880
596	Hinotani see Nakagawa									
597	Hirakud	Mahanadi	Orissa	India	180GE	4 630G		5 250 000		1955
						10 700E				
598	Hiraoka	Tenryu	Tokai	Japan	190G	845	385 000	35 000	Granite	1952
599	Hisasaka	Yura	Hokuriku	Japan	131G	590	112 000	24 000		1956
600	Hishidagawa	Hishida	Kyushu	Japan	227G	720	270 000	14 800	Lava Agglom	1959
601	Hiwassee	Hiwassee	N.Carolina	U.S.A.	307G	1 287	807 200	438 000		1940
602	Hobart		Tasmania	Australia	100G	604	106 000	240		1892
603	Hodges (Lake Hodges)	San Dieguito	California	U.S.A.	136MA	616	18 200	37 000		1918
604	Hogan	Calaveras	California	U.S.A.	137A	1 370	122 000	76 000		1928
605	Hogback W.Branch	Farmington	Connecticut	U.S.A.						1955
606	Hohenwarte	Saale		Germany	246A	1 352	608 000			1939
607	Hollywood see Mulholland									
608	Holter	Wolf Creek	Montana	U.S.A.	110G	1 362				1910
609	Hone (Belice)	Belice	Sicily	Italy	123RF	738	196 000	17 000	Limestone Clay	1924
	(Piano dei Greci)									
610	Honen	Sakuda	Kanto	Japan	100MA	477	27 000	1 300	Conglom	1929
611	Hong Kong			China	110E	400				1931
612	Honna	Tadami	Tohoku	Japan	180G	600	140 000	5 000	Propylite	1953

613	Hooker		Arizona	U.S.A.	222G			98 000		Proposed
614	Hoopes			U.S.A.	135G	970	105 000			1934
615	Hoover (Lake Mead)	Colorado	Ariz-Nev	U.S.A.	726G	1 180	3 250 000	30 500 000	Andesite Breccia	1935
616	Horse Creek		Washington	U.S.A.	240G					Proposed
617	Horse Mesa	Salt	Arizona	U.S.A.	305A	810	147 000	245 000	Quartzite	1927
618	Horseshoe	Verde	Arizona	U.S.A.	140E.RF	1 150	1 100 000	67 000	Basalt	1945
619	Horsetooth		Colorado	U.S.A.	125E	1 600	1 850 000	137 000		1948
620	Hosan	Unpo		Korea	108E	1 270	560 000	10 000	Granite Gneiss	1934
621	Howden			England	117G	1 080	286 000	7 600	Shale Sandstone	1920
622	Howman	Kiewa		Australia	116B	315	20 000	500		1955
623	Huacal			Mexico	100A	140	5 000			1912
624	Hubbart (Upper)	Little Bitter Root	Montana	U.S.A.	131A	503	17 000	12 000	Quartzite	1923
625	Huia			New Zealand	127G	540	38 000	2 000		1929
626	Huintal			Chile	141E		12 000			1928
627	Hume	Murray	Vic	Australia	106G	1 042G	574 000	1 250 000		1933
					142E	4 260E	4 200 000			
628	Hungry Horse	S.F. Flathead	Montana	U.S.A.	546A.G.	2 130	3 087 000	3 500 000	Dolomite	1952
629	Huntington Lake	Big Creek	Calif	U.S.A.	170A.G	2 130	116 000	89 000		1917
630	Hunyani Poort	Hunyani		S. Rhodesia	120E.RF	700	631 000	220 000	Dolerite	1952
631	Hwachon	Yalu		N. Korea	150G	800				1940
632	Hyrum	Little Bear	Utah	U.S.A.	100E	540	427 000	18 700	Clay Gravel Sand	1935
633	I'am Fout	Oum-er-Rbia		Morocco	100G	650		67 500		1944
634	Ibogawa	Hikihara	Kinki	Japan	197G	656	240 000	13 500		1959
635	Ice Harbor	Snake	Ida-Ore	U.S.A.	100G					Proposed
636	Ichigawa	Ichi	Kinki	Japan	217G	950	340 000	12 000		Proposed
637	Ichinose	Hitosuso	Kyushu	Japan	171G	590	183 000	18 000	Granite	1955
638	Idaho Irrigation Company		Idaho	U.S.A.	135E					1915
639	Idanha			Portugal	144G	470				1950
640	Iitoyogawa No.1	Iitoyo	Kanto	Japan	115G	175	7 300	40	Granite	1915
641	Ikari	Ozika	Kauto	Japan	354G	617	549 000	40 000	Granite	1956
642	Ikawa	Oi	Tokai	Japan	325G	700	780 000	120 000	Slate	1956
643	Ikushun betsu (Katsura)	Ishikari	Hokkaido	Japan	190G	790	247 000	15 500	Sandstone	1954
644	Indian Pond Project	Kennebec	N. Maine	U.S.A.	163G	500	102 000		Rock	1954
645	Inferno			Italy	115B	425	72 000			1943
646	Inland	Warrior	Alabama	U.S.A.	195E.RF	1 100	1 600 000	68 000	Rock	1938
647	Inugami	Yodo	Kinki	Japan	134G	442	85 000	3 700	Clayslate Schist	1947
648	Irene Pool	Campbell	B.C.	Canada	130G	650	45 000			1948
649	Iril Enda			Algeria	230G			122 000	Schist	1952
650	Irrigation Dam		Cordoba	Argentina	164RF	1 180		594 000		1934
651	Isabella	Kern	Calif	U.S.A.	185E.RF	1 725	3 000 000	550 000	Granite	1954
652	Ishibuchi	Kitakami	Tohoku	Japan	174RF	1 120	500 000	13 000	Liparite	1952
653	Ishigochi No.1	Komaru	Kyushu	Japan	203G	555	238 000	35 000	Graywacke	1951
654	Isle Maligne	Saguenay	Quebec	Canada	130G	1 050	500 000			1926

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
655	Iwamatsu	Tokachi	Hokkaido	Japan	114G	625	101 000	7 300	Clay Slate Diorite	1942
656	Iwayado	Mimi	Kyushu	Japan	172G	560	189 000	6 700	Graywacke Clay. Slate	1942
657	Jackson Gulch	W. Mancos	Colorado	U.S.A.	180E	1 900	1 925 000	10 000		1948
658	Jandula	Guadalquivir		Spain	280G			69 500		1930
659	Jawai	Damodar		India	128G	2 800				Proposed
660	Jemez	Jemez Creek	N.M.	U.S.A.	135E	780	120 000		Talus	1953
661	Jindabyne	Snowy	N.S.W.	Australia	260G			1 100 000		Proposed
662	Jinzu No.1	Jinzu	Hokuriku	Japan	136G	1 000	110 000	2 500	Conglom	1953
663	Jinzu No.2	Jinzu	Hokuriku	Japan	110G	840	160 000	2 000	Andesite	1953
664	Jocoqui			Mexico	138MA		31 000	8 000		1937
665	Jogne, La (Monsalvens)			Switzerland	186A	361	34 000	8 900		1921
666	John H. Kerr (Bugg's Island)	Roanoke	Virginia	U.S.A.	144GE	2 785	600 000	2 920 000	Gran. Gneiss	1951
						19 600E				
667	John Martin (Caddoa)	Arkansas	Colorado	U.S.A.	153GE	13 946	6 683 000	683 000	Sandstone Shale	1950
668	Johnstown		Pa	U.S.A.	110E					1931
669	Jordan	Coosa	Alabama	U.S.A.	125G	2 066		40 000		1929
670	Jordan	Jordan		Palestine	2 dams 80-100			900 000		Proposed
671	Jordan	Thomas Creek	Wash	U.S.A.	120G					Proposed
672	Jordan River	Jordan	B.C.	Canada	126B	891	21 000	14 000		1912
673	Juncal	Santa Ynez	Calif	U.S.A.	160A	440	40 000	7 000	Sandstone	1930
674	Kadenri	Choshin		Korea	172G	2 400	710 000	530 000	Gneiss	1937
675	Kafue	Kafue		N. Rhodesia	100G	600				1960
676	Kaikawaguchi	Naka	Shikoku	Japan	412G		1 120 000	220 000	Schist	Proposed
677	Kajakai	Helmand		Afghanistan	321E.RF	1 800	4 300 000		Limestone	1953
678	Kajisawa	Agatsuma	Kanto	Japan	121G	300	36 000	160	Tuff & Conglom	1929
679	Kaketo		Gwalior	India	106G	3 425	222 000	57 000		1933
680	Kakimoto	Sano	Tokai	Japan	138G	889	123 000	6 000	Porphyry	1952
681	Kalkfontein	Riet		U.of S. Africa	120RF	1 040	300 000	298 200	Boulders Dolerite	1939
682	Kama	Kama		Russia						Proposed
683	Kamanassie	Kamanassie		U.of S. Africa	145G	1 265	145 000	31 100	Quartzite Shale	1923
684	Kamiitsuka	Kuma	Kyushu	Japan	311A	750	262 000	11 600	Slate	1956
685	Kamikotori	Kotori	Tokai	Japan	344G	1 070	870 000	72 000		1958
686	Kaminojiri	Agano	Tohoku	Japan	115G	840	65 000	2 000	Tuff & Sandstone	1954
687	Kamishiiba	Mimi	Kyushu	Japan	366A	1 150	407 000	75 000	Sandst. Slate Greywacke	1954
688	Kamitochi	Kuma	Kyushu	Japan	229G	540	314 000	18 800	Sandstone	1957
689	Kamogawa	Kako	Kinki	Japan	142G	319	69 000	5 900	Quartz Porphyry	1951
690	Kaneta	Yoshino	Shikoku	Japan	253G	850	525 000	17 000	Schist	Proposed
691	Kang Rieng	Quae Yai		Thailand	170G	650	201 000	815 000	Quartzite	Proposed
692	Kanno	N5	Tohoku	Japan	126G	266	53 000	2 000	Granite	1953

693	Kannose	Go	Chugoku	Japan	225G	640	269 000	32 000	Liparite	1951
694	Kanopolis	Smoky Hill	Kansas	U.S.A.	125E	15 400	9 860 000	400 000		1948
695	Kanose	Agano	Tohoku	Japan	100G	920	177 000	4 900	Liparite	1928
696	Kansera El	Oued Beth		Morocco	206G	992	248 000	224 000	Mari Limestone	1934
697	Kaprun (Limburg)	Salzach		Austria	393A	1 024	640 000	65 000		1952
698	Karadj	Karadj		Iran	490A	880		116 000	Diorite	1954
699	Karapiro	Waikato		New Zealand	172A	1 120	220 000	62 000		1947
699A	Karasubara	Karasubara	Kinki	Japan	109G	400	33 000	1 200	Granite	1915
700	Karnafulli		E. Bengal	Pakistan	120E	1 700				Proposed
701	Kariba Gorge	Zambesi		S. Africa	300G			40 000 000		Proposed
702	Kasagi	Kiso	Tokai	Japan	113G	510	114 000	4 500	Quartz Porphyry	1930
703	Kashiwara	Yura	Kinki	Japan	213G	800	290 000	27 000		1958
704	Katsura see Ikushunbetsu									
705	Kawaguchi	Naka	Shikoku	Japan	129G		135 000	14 600		Proposed
706	Kawamata	Kina-Tone	Kanto	Japan	389G		465 000	36 000	Granite	Proposed
707	Kazaya	Totsu	Kinki	Japan	292G	950	680 000	57 000	Schist Shale Sandstone	Proposed
708	Keepit	Namoi	N.S.W.	Australia	135G	1 420		345 000		1953
709	Keigoku	Keigoku	Kyushu	Japan	118G	460	53 000	1 200	Granite	1936
710	Kenney	Nechako	B.C.	Canada	317RF		3 700 000		Basalt	1952
711	Kensico	Bronx	N.Y.	U.S.A.	307G	1 843	900 000	913 000	Sch. Gneiss Limestone	1916
712	Kentucky (Gilbertsville)	Tennessee	Kentucky	U.S.A.	150G	8 422	8 518 700	4 600 000	Limestone	1944
713	Kerckhoff	San Joaquin	California	U.S.A.	108A	570	25 000	4 200	Granite	1919
714	Kerr see Flathead									
715	Kerr see John H.									
716	Kerrata			Algeria	100A			560	Limestone	1950
717	Keswick	Sacramento	California	U.S.A.	119G	1 046	197 000	24 000		1950
718	Keyhole	Belle Fourche	Wyoming	U.S.A.	127E	3 300		340 000		1952
719	Keystone see Kingsley									
720	Kiewa	Kiewa	Victoria	Australia	100B				Granite	1944
721	Kingsley	N. Platte	Nebraska	U.S.A.	162E	10 700	26 000 000	2 000 000	Alluvial	1941
722	Kirwin	N.F. Solomon	Kansas	U.S.A.	170E	12 600	9 500 000	315 000		1955
723	Kitanogawa	Kitano	Shikoku	Japan	196G	755	400 000	25 000		Proposed
724	Kitayama	Kase	Kyushu	Japan	172G	570	181 000	18 000	Granite	1956
725	Kiwada	Ichi	Kinki	Japan	163A	530	72 000	8 100		1957
726	Kleinberg			Germany	131G			13 400		1914
727	Knightville	Westfield	Mass	U.S.A.	160E	1 200	1 250 000	49 000		1942
728	Kochi Diversion	Tone	Kanto	Japan	170A	610	100 000	800	Silicified Tuff	Proposed
729	Kodayar		Travancore	India	152G	1 396	161 000	81 000		1906
730	Koeflach see Pack									
731	Kogakura	Shikanō	Kyushu	Japan	135G	450	79 000	1 500	Granite	1926
732	Kogawa	Kō	Shikoku	Japan	184G	625	130 000			Proposed
733	Komaki	Sho	Hokurika	Japan	248G	1 000	390 000	14 700	Tuff Breccia Sandstone	1930
734	Komatsuike	Nakayama	Shikoku	Japan	113E	715	260 000	810	Conglom.	1916
735	Komotau			Czechoslovakia	139G	508	70 000	600	Gneiss	1904
736	Konar	Konar		India	160E	12 600	7 000 000	260 000		1954

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
737	Koombooloomba	Tully		Australia	160GE	1 160	250 000	152 000		Proposed
738	Koon	Evitt's Creek	Pa	U.S.A.	108G	726	72 000	7 000	Sandstone	1932
739	Kortes	N.Platte	Wyoming	U.S.A.	240G	440	147 000		Granite	1951
740	Kosakabe	Takahashi	Chugoku	Japan	214G	490	143 000	12 000	Quartz Porphyry	1954
741	Kosi see Chatra									
742	Koyabira	Kurobe	Hokuriku	Japan	162G	385	117 000	170	Gneiss	1936
743	Koyagawa	Koya	Chugoku	Japan	128G	555	112 000	45 000	Conglomerate	1954
744	Koyna	Koyna		India	300G					Proposed
745	Kriebstein see Zschopau									
746	Krishnarajasagar		Mysore	India	148G	8 600	1 110 000	1 010 000		1932
747	Kuba	Kushima	Chugoku	Japan	115G		55 000	8 000		Proposed
748	Kurahashi	Yamato	Kinki	Japan	110E	805	425 000	1 400	Granite	1954
749	Kurobachi	Kitayama	Kinki	Japan	157G		145 000	16 000	Shale	Proposed
750	Kurobe No.4	Kurobe	Hokuriku	Japan	590G	1 065	2 800 000	118 000		1956
751	Kuroda	Kuroda	Tokai	Japan	103G	490	52 000	3 700	Granite Gneiss	1933
752	Kuromata No.1	Shinano	Tohoku	Japan	279G	790	420 000	23 400		Proposed
753	Kuromata No.2	Shinano	Tohoku	Japan	263G	690	353 000	23 400		Proposed
754	Kurotanike	Sasagafuchi	Chugoku	Japan	112E	423	185 000	520	Clayslate	1932
755	Kuse	Ibi-Kiso	Tokai	Japan	109G	256	51 000	680	Slate Sandstone	1953
756	La Boquilla see Boquilla									
757	La Cave	Ottawa	Ont & Que	Canada	105G	2 500	265 000			1952
758	Ladore	Campbell Lake	B.C.	Canada	140G	342		280 000		1950
759	Ladybower			England	135E	1 250		23 700		1945
760	Ladysmith		Natal	S. Africa	100G	400		260 000		1951
761	Lafayette	Lafayette Creek	Calif	U.S.A.	170E	1 200	1 760 000	3 500		1928
762	Lages			Brazil	105G	800	89 000	147 000	Gneiss	1908
					197B		244 000	853 000		(1949)
763	Laggan	Spean		Scotland	186G	680	100 000	34 000		1934
764	Lago d'Arno	Lago d'Arno		Italy	120G	520	92 000	25 000		1921
765	Lago d'Avio	Lago d'Avio		Italy	123G	1 004	92 000	13 000		1930
766	Lago del Toggia see Fisch									
767	Lago di Chignana see Marmore									
768	Lago di Mezzo			Italy	102G			300		1930
769	Lago Goillet	Lago Goillet		Italy	115G	72		8 000		1939
770	Lago Lungo see Gorzente									
771	Lago Nero	Goglio	Bergamo	Italy	118G	480		2 600		1928
772	Lago Sandegnana see Brembo									
773	Lago Scuro	Valla	Alessandria	Italy	131A.RF			2 000		1930
774	LaGrande	Nisqually	Oregon	U.S.A.	215G	710	110 000	10 000		1945
775	LaGrange	Tuolumne	California	U.S.A.	131G	320	39 700	500		1894

776	Laguna del Maule	Maule	Talca/Argen-tina	Chile	115E	395	585 000	1 620		1956
777	Lahontan	Carson	Nevada	U.S.A.	129E	1 400	770 000	273 000	Shale Sandstone	1914
778	L'Aigle	Dordogne		France	312A.G	951	320 000	160 000	Rock	1948
779	La Jogne see Jogne									
780	La Joie see Bridge River									
781	Lake Arrowhead	Little Bear Ck	Calif	U.S.A.	190E	720	1 300 000	47 000		1922
782	Lake Arthur	Tarka		U.ofS. Africa	124G	1 640	190 000	70 000	Shale	1924
783	Lake Arthur Hill see Wilson									
784	Lake Christine		Calif	U.S.A.	100E					1900
785	Lake Crowley see Long Valley									
786	Lake Curry see Gordon Valley									
787	Lake Fordyce see Fordyce									
788	Lake Hodges see Hodges									
789	La Joie see Bridge River									
790	Lake Kemp see Big Wichita									
791	Lake Loveland (Sweetwater Falls)	Sweetwater	Calif	U.S.A.	224A	783	67 000	27 700	Granite	1945
792	Lake Lure	Rocky Broad	N.C.	U.S.A.	122MA	585	40 000			1927
793	Lake Manchester	Cabbage Tree Ck	Queensland	Australia	125G	580	58 000	26 000		1916
794	Lake McClure see Exchequer									
795	Lake Mead see Hoover									
796	Lake Mentz	Sundays		U.ofS. Africa	114G	1 260	200 000	94 000	Shale	1924
797	Lake Murray see Saluda									
798	Lake Pleasant (Frog Tanks)	AguaFria	Arizona	U.S.A.	256MA	1 975	103 000	173 000		1927
799	Lake Whiting see Lloyd									
800	Lake Willenor see Concow									
801	Lake Wohlford	Escondido Creek	Calif	U.S.A.	100E	422	156 000	7 500		1924
802	La Laguna	La Laguna	Coquimbo	Chile	135E	612 000	34 700	34 000		1937
803	Lalla Takerkoust	Oued N'Fis		Algeria	100G					1949
804	Lardit (Maury)			France	213A	590	98 000	27 000		1949
805	La Rioja			Argentine	141RF	361	356 000	20 300		1946
806	Las Virgenes (Francisco J. Madero)	San Pedro		Mexico	157B	620	133 000	328 000	Rhyolite	1949
807	La Tuque	St Maurice	Quebec	Canada	103G	1 337	270 000			1940
808	Lautaro	Copiapo	Atacama	Chile	109E	2 700	1 440 000	32 800		1942
809	Lavagnina	Gorzente		Italy	108G	401		1 820		1917
810	Lavezza (Bruno)	Gorzente	Near Genoa	Italy	146G	475		2 900		1883
										(1928)
811	Lavon	Trinity	Texas	U.S.A.	100E	9 540		376 000		1953
812	Lehnmuhle			Germany	148G			18 600		1927
813	Le Mesce see Bionia									
814	Lempe see El Guayabo									
815	Lexington	Los Gatos Ck	Calif	U.S.A.	205E.RF	685	1 000 000	25 000	Shale	1953
816	Libby	Kootenai	Montana	U.S.A.	350G			4 250 000		Proposed
817	Limberg see Kaprun									
818	Lindleyspoort	Elands		U.ofS. Africa	121A	590	43 000	9 840	Diabase	1941

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
819	Linville		N.Carolina	U.S.A.	160E	1 250				1919
820	Liro (Spluga)			Italy	107G	284	254 000	26 000		1930
821	Listertalsperre			Germany	132G		140 000	18 000		1912
822	Little Bear Creek see Lake Arrowhead									
823	Little Elm see Garza									
824	Little Pine Creek	Little Pine Creek	Pa	U.S.A.	115E	1 200		29 000		1952
825	Littlerock	Littlerock Creek	California	U.S.A.	158MA	576	32 100	4 300		1924
826	Litu	Claro	Talca	Chile	132E					Proposed
827	Lloyd (Bhatgar or Lake Whiting)		near Bombay	India	194G	5 333	795 000	556 000		1928
828	Lob's Hole	Tumut	N.S.W.	Australia	180G			50 000		Proposed
829	Loch Cluanie			Scotland	108G	2 015				1952
830	Loch Quoich			Scotland	107G	806				Proposed
831	Loch Raven	Gunpowder	Maryland	U.S.A.	103G	640	98 000	71 000		1914
832	Loch Sloy	Loch Sloy		Scotland	160B	1 160	210 000	28 000	Schist	1950
833	Lois River	Lois	B.C.	Canada	205A	990	61 000		Granodiorite	1941
834	Lone Rock	Buffalo	Arkansas	U.S.A.	230G	2 235	1 023 000	676 000		Proposed
835	Long Lake	Long Lake Coulee	Washington	U.S.A.	163E	1 900	1 450 000			1948
836	Long Sault	St Lawrence	Que,N.Y.	Canada,U.S.A.	145G	2 000	600 000			Proposed
837	Long Valley (Lake Crowley)	Owens	California	U.S.A.	132E	520	510 000	183 000		1940
838	Lookout Point	M.F. Willamette	Oregon	U.S.A.	278EG	3 370	Earth Gravel 4 285 000 Conc Spillway 832 000	456 000	Andesite Tuff Breccia	1954
839	Loskop	Great Olifants	Transvaal	U of S Africa	148G	1 420	300 000	167 000	Felsite	1938
840	Los Padres	Carmel	California	U.S.A.	148E	485	400 000	3 000		1949
841	Los Reyes	near Necaxa		Mexico	100E					1920
842	Lost Creek	Lost Creek	California	U.S.A.	130A	440	11 000	5 800	Serpentine Diorite	1924
843	Lower Franklin	Franklin Canyon	California	U.S.A.	103E	500	272 000	1 052		1922
844	Lower Otay see Otay, Lower									
845	Lower Oued Djendjen			Algeria	328G			187 000		Proposed
846	Loyalhanna	Loyalhanna	Pa	U.S.A.	130G	760	120 000	95 500		1942
847	Lozoya	Lozoya		Spain	105G	238				1852
848	Lucendro	Reuss		Switzerland	224B	885	200 000	20 000		1947
849	Lucky Peak	Boise	Idaho	U.S.A.	328E	1 700	5 775 000	306 000	Basalt	1955
850	Lumiei	Lumiei		Italy	445A	480	130 000	56 000	Limestone	1948
851	Lungo see Gorzente									
852	Lyons	S.F.Stanislaus	California	U.S.A.	117A	516	12 000	5 500		1932
853	Madag (Hudduk)	near	Bombay	India	144E	1 850	4 730 000	1 200		1867
854	Madden	Chagres		Panama	220G	974	524 000	506 000	Calcareous Sandstone	1934
855	Madero see Las Virgenes									
856	Mad River (Sweasey)	Mad	California	U.S.A.	130A	260	22 000	3 000		1938

857	Madupatty	Muthirapuzha	Travancore	India	280G	805	210 000	45 000		1953
858	Maezawa	Tadami	Tohoku	Japan	280G	600	350 000	4 000	Slate Tuff	Proposed
859	Magaribuchi	Muromi	Kyushu	Japan	138G	465	66 000	2 100	Granite	1923
860	Magic		Idaho	U.S.A.	135E	625		192 000		1909
861	Mahatma Ghandi	Sharavethi		India	104G					1965
862	Mahinerangi	Waipori		New Zealand	134A	520	40 000	203 000	Schist	1944 (1946)
863	Mahoning	Mahoning Creek	Ohio	U.S.A.	200G	926	346 000	79 000		1943
864	Maithon	Barakan		India	160G	10 000		1 000 000		1950
865	Malacca (Perak)			Malaya	143B	1 380	143 000			1930
866	Maladevi			India	106E					1909
867	Malibu	Malibu	Calif	U.S.A.	125A	175	4 200	80		1924
868	Malpaso			Peru	255RF	497				1936
869	Mangahao No.1	Mangahao		New Zealand	116G	791	37 500	4 000		1928
870	Mangahao No.2	Mangahao		New Zealand	104G	185	21 800	1 300		1925
871	Maniari		C.P.	India	140E	6 874	1 570 000	120 000		1933
872	Mannami	Mannami	Tokai	Japan	280G	920	450 000	35 000		1956
873	Mannoike	Kanakura	Shikoku	Japan	108E	500	273 000	12 400	Granite	1931
874	Manogatani	Yoshino	Shikoku	Japan	370G	920	1 150 000	160 000	Schist	Proposed
875	Manora	Nayar		India	600G			1 400 000		Proposed
876	Manorburn	Manorburn		New Zealand	108A	380	8 600	42 000	Schist	1915
877	Mansfield see Marshall Ford									
878	Manuherikia	Manuherikia		New Zealand	110RF	509	175 000	8 000		1935
879	Maraetai			New Zealand	264A	630	140 000	70 000		1951
880	Marakanawe			India	167G			690 000		1923
881	Maramsilli		CP	India	106E	8 500	165 000	131 000		1924
882	Marathon	Varnava Charada		Greece	177G	935	274 000	33 000	Chlorite Schist	1931
883	Marble Canyon		Nev. Ariz	U.S.A.	300G			500 000		Proposed
884	Marcillac			France	157A	600	35 000	24 000		1949
885	Mareges	Dordogne		France	295A	810	242 000	32 000		1935
886	Marguerite	St Marguerite		Labrador	128G	560				1954
887	Markfoss see Solbergfoss									
888	Marklissa	Queis		Germany	141G	427	84 000	162 000		1907
889	Marmore (Lago di Chignana)		Torino	Italy	138RF			9 600		1924
890	Maronne see Enchanet									
891	Maroondah	Watts		Australia	135G	956	164 000	23 000		1920
892	Marshall Creek	Marshall Creek	Kansas	U.S.A.	120E	800	2 000 000		Shale	1937(4)
893	Marshall Ford (Mansfield)	Colorado	Texas	U.S.A.	150G	2 422	968 000	1 200 000	Shale Limestone	1939
					(270)G		(3 389 000)	(1 900 000)		(1942)
894	Martin (Cherokee Bluff)	Tallapoosa	Alabama	U.S.A.	145G	1 200	395 000	1 620 000		1926
895	Martinez		Calif	U.S.A.	100G					1947
896	Marunuma	Marunuma	Kanto	Japan	108B	289	20 000	500	Liparite	1931
897	Maruyama	Kiso	Tokai	Japan	288G	788	615 000	46 000	Sandy Slate	1953
898	Mathews see Cajalco									

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
899	Matilija	Matilija Creek	California	U.S.A.	163A	620	51 000	7 000	Sandstone	1948
900	Matrullas	Matrullus		Puerto Rico	120E	710		3 590		1934
901	Matsubagawa	Matsuba	Shikoku	Japan	263G	890	705 000	114 000		Proposed
902	Matsuogawa	Matsuo	Shikoku	Japan	284G	856	492 000	15 800	Quartz Schist	1954
903	Mauer (Bober)			Germany	203G	918	332 000	40 000		1912
904	Maury see Lardit									
905	Mauvoisin		Valais	Switzerland	745A	1 680	2 600 000	130 000		1955
906	Mayfield	Cowlitz	Washington	U.S.A.	240G	850		21 000		Proposed
907	Mazoe	Mazoe		S.Rhodesia	102AG	540	22 000	19 000	Ironstone	1919
908	McConnell	Ottawa	Quebec	Canada	125G	1 600	270 000	1 100 000	Granite Gneiss	1950
909	McDowell		Arizona	U.S.A.	126BE	4 100		578 000		Proposed
910	McKay	McKay Creek	Oregon	U.S.A.	165E	2 700	2 287 000	74 000	Basalt	1928
911	McNary	Columbia	Wash,Ore	U.S.A.	158GE	8 725	1 850 000		Basalt	1955
912	Media Flumendosa		Sardinia	Italy	330G			330 000		Proposed
913	Mediano	Ebro		Spain	180G			94 000		1935
914	Medicine Creek	Medicine Creek	Nebraska	U.S.A.	102E	4 000	3 600 000	40 000		1950
915	Medina	Medina	Texas	U.S.A.	178G	1 580	205 000	254 000	Limestone	1913
916	Megdova	Megdova		Greece	160E					Proposed
917	Melones	Stanislaus	California	U.S.A.	185A	591	93 900	112 500		1927
918	Melton	Werribee	Victoria	Australia	110E	600		19 000		1913
919	Menokahata	Manokabetake	Kyushu	Japan	113G	440	39 000	140	Diorite Andesite	1931
920	Mercedes		Durango	Mexico	136G	535	28 000	12 000		1905
921	Meridian see Lookout Point									
922	Merriman	Rondout Creek	New York	U.S.A.	200E	2 500	7 000 000		Alluvial	1949
923	Merwin see Ariel									
924	Meschede see Henner									
925	Mettma	Mettma		Germany	160G	430	50 000	1 400		1940
926	Mettur (Cauvery) (Stanley)	Cauvery	Madras	India	214G	5 300	2 020 000	2 147 000		1937
927	Metur see Mettur									
928	Mezquital			Mexico	102G			57 000		1925
929	Miboro	Shō	Hokuriku	Japan	396RF	1 475	7 900 000	257 000	Quartz Porphyry	1956
930	Mignano	Arda	Piacenza	Italy	167GMA	1 118		11 300		1935
931	Millbrook		South A.	Australia	101E	995	355 000	13 400		1920
932	Milliken	Milliken Creek	California	U.S.A.	110A	680	19 300	2 000		1924
933	Mingechaur	Kura		Russia	250E	5 000				1950
934	Miomote	Miomote	Hokuriku	Japan	253G	670	370 000	39 000	Granite	1952
935	Misselbeck	N.F.Cottonwood Ck	California	U.S.A.	125E	470	725 000	4 800		1920
936	Mississagi	Mississagi	Ontario	Canada	235G	900	220 000			1950
937	Mitchell	Coosa	Alabama	U.S.A.	105G	1 264	202 000			1924
938	Miura	Kiso	Tokai	Japan	275G	950	660 000	45 000	Quartz Porphyry	1942
939	Miyahama	Naka	Shikoku	Japan	214G		187 000	16 000	Slate	Proposed

940	Miyashita	Tadami	Tohoku	Japan	159G	540	182 000	16 800	Liparite Green Tuff	1950
941	Mocuzari	Mayo	Sonora	Mexico	215E	2 427				1956
942	Mohawk	Walhonding	Ohio	U.S.A.	111E	2 330	2 642 600			1937
943	Möhnetalsperre	Ruhr		Germany	132G	2 145	440 000	109 000		1913
944	Molare (Zerbino)	Orba	Near Genoa	Italy	150G			14 000	Serpentine Schist	1924*
945	Molato (Tidone)	Tidone	Piacenza	Italy	159MA	1 049		9 700		1928
946	Molina			Switzerland	160G					1948
947	Moncenisio			Italy	110G	330	83 000	24 000		1924
948	Monforte			Portugal	350A	1 470				Proposed
949	Mononobegawa	Mononobe	Shikoku	Japan	245G	640	358 000	17 800	Shale Sandstone	1954
950	Monsalvens see Jogne									
951	Montejaque	Guadares		Spain	273A	268	35 000	33 000	Limestone	1924
952	Monticello	Putah Creek	Calif	U.S.A.	295A	1 017		1 600 000		1955
953	Moorhead	Powder	Montana	U.S.A.	100G					Proposed
954	Mooserboden	Kaprun		Austria	312A		1 300 000	70 000		1953
955	Mor			India	125G			800 000		1955
956	Morasco	Gries Creek		Italy	181G	1 706	338 000	14 200		1940
957	Morena	Cottonwood Ck	Calif	U.S.A.	167RF	505	335 000	65 800	Granite	1895
										(1911)
										(1930)
958	Morman Flat	Salt	Arizona	U.S.A.	229A	416	43 000	90 000		1925
959	Mormon Island		Calif	U.S.A.	120E	4 800				1953
960	Morris (Pine Canyon)	San Gabriel	Calif	U.S.A.	Woolsey & Sch	780	514 000	37 000	Granodiorite Gneiss	1935
961	Morris		Conn	U.S.A.	100E	1 100	651 000			1910
962	Mossy Rock		Washington	U.S.A.	510G	1 300		975 000		Proposed
963	Mouche	Mouche		France	120G	1 348		5 300	Marl	1890
964	Mountain Dell	Parley's Canyon	Utah	U.S.A.	150MA	560				1917
965	Mount Bold	Onkaparinga	South A.	Australia	152A	715	132 000	24 000	Phyllite	1937
966	Mount Morris	Genesee	N.Y.	U.S.A.	246G	1 005	755 000	337 000	Shale	1952
967	Mudduk see Madag									
968	Mud Mountain (Stevens)	White	Washington	U.S.A.	425E.RF	700	2 230 000	130 000		1948
969	Mukurti		Madras	India	112G	520	45 000	41 000		1938
969	Mulholland (Hollywood)	Weid Canyon	Calif	U.S.A.	204G	933	173 000	4 200		1925
970	Mullardoch	Cannich		Scotland	160G	2 385	315 000	171 000		1952
971	Mulshi		Bombay	India	166G	3 600	825 000	347 000		1929
972	Mulungushi			Rhodesia	117RF		175 000	92 000	Granite Gneiss	1925
973	Mundaring	Helena	West A.	Australia	133G	750	130 000	55 000		1902
										(1950)
974	Murayamashita	Tama	Kanto	Japan	102E	1 930	1 090 000	6 500	Alluvial	1927
975	Muro Lucano see San Pietro									
976	Murray	Chapparel Canyon	Calif	U.S.A.	112MA	900	8 200	5 900	Porphyry Conglom.	1917
977	Muschioso	Dolo		Italy	138A	427		2 200		1928
978	Muscle Shoals see Wilson									
978A	Nagaiwa	Katsura	Kyushu	Japan	106E	266	77 000	220	Conglom	1924

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
979	Nagasawa	Yoshino	Shikoku	Japan	225G	710	292 000	295 000	Quartz Schist	1951
980	Nagase	Mononobe	Shikoku	Japan	245G	640	358 000	17 800	Shale Sandstone	1955
981	Naiba	Kato	Shikoku	Japan	157G	555	172 000	5 800	Granite	1953
982	Nakagawa (Hinotani)	Naka	Shikoku	Japan	279G	555	406 000	35 000	Sandstone	1955
983	Namal	Sutlej	Punjal	India	128G	321		48 000		1913
984	Nanairo	Kitayama	Kinki	Japan	490G	1 510	2 520 000	445 000	Slate	Proposed
985	Nantahala	Nantahala	N.C.	U.S.A.	250RF	1 080	2 260 000	124 000	Arkose	1942
986	Narnallah		Baluchistan	Pakistan	165G	189	73 000	9 600		1913
987	Narrows (Arkansas)	Little Missouri	Arkansas	U.S.A.	185G	940	300 000	408 000	Sandstone Shale	1950
988	Narrows (Yadkin)	Pee Dee	N.C.	U.S.A.	216G	1 150	525 000			1917
989	Narude	Sho	Hokuriku	Japan	188G	620	124 000	7 800	Quartz Porphyry	1952
990	Natsuse	Tama	Tohoku	Japan	102G	380	54 000	1 000	Andesite	1952
991	Navajo	San Juan	N.M.	U.S.A.	335E		15 200 000	1 200 000		Proposed
992	Ncema	Ncema		S. Rhodesia	130G	650		14 760	Breccia Greenstone	1943
993	Necaxa No.2	Necaxa		Mexico	180E	1 220	2 300 000			1909
994	Necaxa No.3	Necaxa		Mexico	175E					1909
995	Nederland see Barker									
996	Negro			Chile	148RF			41 000		1930
997	Nepean	Nepean	N.S.W.	Australia	250G	700	310 000	66 000	Sandstone	1935
998	Neusa	Neusa	Near Bogota	Colombia	148E	1 150	1 075 000	80 000	Shale Siltstone	1952
999	Neversink	Neversink	N.Y.	U.S.A.	200E	2 700	9 500 000	106 000	Shale Sandst. Greywacke	1952
1000	New Croton (Quaker Bridge)	Croton	N.Y.	U.S.A.	238GE	710	855 000	92 000	Limestone	1907
1001	Newton		Utah	U.S.A.	109E	640		5 200		1945
1002	Neye			Germany	110G	650	72 000	5 000	Greywacke Shale	1908
1003	Nidd see Harrogate									
1004	Neidernbach			Switzerland	138G	750	56 000	2 400		1931
1005	Niederwartha			Germany	138E		719 000	2 400		1929
1006	Nihotupu			New Zealand	165E	530	71 300	2 000		1923
1007	Nijar	Carrizal		Spain	101G			1 700		1850
1008	Nishigaira	Kiso	Tokai	Japan	100G	490	90 000	3 500	Sandstone Clay Slate	1946
1009	Nishikigawa No.1	Nishiki	Chugoku	Japan	128G	395	55 000	6 000	Granite	1940
1010	Nishiyama	Nishiyama	Kyushu	Japan	106G	470	42 000	1 200	Granite	1904
1011	Nishiyoshino No.2	Nibu	Kinki	Japan	102G	340		240		Proposed
1012	Nitti see San Pietro									
1013	Nizamsagar	Manjira	Hyderabad	India	158G	10 350	1 135 000	590 000		1931
1014	Njelele	Njelele		U.of S. Africa	135A	234	18 230	25 000	Solid	1948
1015	Nokawa No.1	Mogami	Tohoku	Japan	187G	675	220 000	9 000	Granite	1957
1016	Non	Non		Italy	460A			138 000		1950
1017	Nonomata	Nonomata	Tokai	Japan	274G	1 600	690 000	150 000		1958
1018	Norfork	N. Fork	Arkansas	U.S.A.	233G	2 624	1 500 000	1 983 000	Limestone	1945
1019	Norris (Cove Creek)	Clinch	Tennessee	U.S.A.	240G	1 570	1 195 000	2 710 000	Dolomite	1935

1020	North Dam	Grand Coulee Reservoir	Washington	U.S.A.	130E.RF.	1 400	1 235 000			1950
1021	North Fork	Pacheco Creek	Calif.	U.S.A.	100E	600	325 000	6 150		1939
1022	North Fork	N.F. American	Calif.	U.S.A.	147A	620	29 000	14 600		1939
1023	Norwalk Lake	Silvermine	Conn.	U.S.A.	109G	1 012	73 500			1948
1024	Nottely	Nottely	Georgia	U.S.A.	184E	2 300	1 570 000	190 000		1942
1025	Novaliches			Philippines	100E		640 000	27 000		1929
1026	Noxon	Clark Fork	Montana	U.S.A.	150G					Proposed
1027	Nozori	Nakatsu-Shinano	Kanto	Japan	210RF		790 000	56 000	Andesite Tuff	Proposed
1028	Nueva Espagna see Don Martin									
1029	Nukabira	Tokachi	Hokkaido	Japan	265G	950	710 000	250 000	Andesite	1955
1030	Nunobiki	Nunobiki	Kinki	Japan	109G	360	29 000	650	Granite	1900
1031	Oahe	Missouri	S. Dakota	U.S.A.	242E	9 300	78 000 000	21 800 000	Shale Glacial Till	1959
1032	Obara	Shō	Hokuriku	Japan	161G	520	121 000	9 300	Liparite	1942
1033	Ochiai	Kiso	Tokai	Japan	100G	630	61 000	1 200	Porphyrite Granite	1926
1034	Ochoco	Ochoco Creek	Oregon	U.S.A.	126E	1 000	541 000	45 000		1921
1035	Ocmulgee River		Georgia	U.S.A.	112G	420				1915
1036	Ocoee No.3	Ocoee	Tennessee	U.S.A.	110G	610	80 000	14 170		1942
1037	Odono	Naka	Shikoku	Japan	195G		193 000	5 700		Proposed
1038	Oester			Germany	131G	770	80 000	2 500	Slate Greywacke	1906
1039	Ogawa		Tokai	Japan	214G	960	330 000	23 000		1958
1040	Ogden		Utah	U.S.A.	100MA	340				1896
1041	Ogochi	Tama	Kanto	Japan	490G	1 130	2 090 000	152 000	Greywacke Clay Slate	1957
1042	Ohaku (Odomari)	Takiyama	Chugoku	Japan	200G	400	130 000	10 400	Quartz Porphyry	1934
1043	Ohashi	Yoshino	Shikoku	Japan	230G	590	223 000	19 400	Schist	1941
1044	Ohgata	Ozegawa	Chugoku	Japan	261G	900	392 000	89 000	Granite	Proposed
1045	Ohtani	Ashiba	Chugoku	Japan	109E	328	170 000	720	Clay Slate	1931
1046	Ohtori	Tadami	Tohoku	Japan	187G	650	212 000	1 700	Slate	Proposed
1047	Ohtsumata	Tadami	Tohoku	Japan	130G	1 200	196 000	200	Granite	Proposed
1048	Oi	Kiso	Tohoku	Japan	161G	900	150 000	8 900	Granite & Quartz Porphyry	1924
1049	Okawauchi	Okawauchi	Kyushu	Japan	113G	1 120	170 000	2 100	Granite	1937
1050	Okiura	Iwamoto	Tohoku	Japan	130G	560	106 000	2 700	Green Tuff	1945
1051	Okutadami	Tadami	Tohoku	Japan	526G	1 300	1 950 000	450 000	Gabbro Clay Slate	1957
1052	Okuwaki	Hitosuso	Kyushu	Japan	237A	550	65 000	5 200	Sandstone	1955
1053	Olentangy	Scioto	Ohio	U.S.A.	100GE					1948
1054	Olive Bridge see Ashokan									
1055	Oma	Ōai	Tokai	Japan	145G	352			Slate	1938
1056	Omi (Tankai)	Ishida	Hokuriku	Japan	101E	290	84 000	610	Rock	1923
1057	Omori	Omori	Shikoku	Japan	168G		90 000	5 600		Proposed
1058	Ongenon			France	123G	420		300		1904
1059	Ono	Nishino	Kanto	Japan	175E	1 080	680 000	400	Tuff	1914
1060	Ordunte	Ordunte		Spain	161G			18 000		1935
1061	Ori	Yoshino	Shikoku	Japan	109G		89 000	1 600	Slate	Proposed
1062	Oroville	Feather	Calif.	U.S.A.	710G					Proposed

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE 7 (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1063	Orto-Tokoi	Chu		Russia	185E	1 030	3 000 000			1950
1064	Osage (Bagnell)	Osage	Missouri	U.S.A.	148G	2 543	545 000	2 000 000	Dolomite Sandstone	1931
1065	Osakabe	Takahashi	Chugoku	Japan	214G	490	143 000	12 000	Quartz Porphyry	1953
1066	O'Shannassy	O'Shannassy		Australia	110E	740	322 000	3 400		1927
1067	O'Shaugnessy	Tuolumne	Calif.	U.S.A.	430G	900	660 000	350 000	Granite	1925 (1938)
1068	O'Shaugnessy	Scioto	Ohio	U.S.A.	105G	1 750	79 600 150 000	16 200	Limestone	1925
1069	Oshiga	Tanto-Kitakami	Tohoku	Japan	108G		393 000	23 000		Proposed
1070	Osiglietta	Osiglietta		Italy	230A	746		10 500		1938
1071	Osmansagar		Hyderabad	India	112G.E.	6 300	282 000	90 000		1920
1072	Osmena			Philippines	100A	131	3 000			1913
1073	O'Sullivan see Potholes									
1074	Otay (lower)	Otay Creek	California	U.S.A.	175G			58 000		1919
1075	Oued Fodda			Algeria	288G	590	350 000	182 000		1933
1076	Oued Kebir			Tunisia	115RF	1 140		21 000		1925
1077	Oued Ksob			Algeria	148MA	853				1937
1078	Owl Creek		S.D.	U.S.A.	122E					1920
1079	Owyhee	Owyhee	Oregon	U.S.A.	417G	833	521 000	1 120 000	Rhyolite	1932
1080	Oxbow	Snake	Idaho	U.S.A.	200RF	730	940 000	6 200		Proposed
1081	Oxford	Catawba	N.C.	U.S.A.	115G	1 600				1946
1082	Oyaike	Oya	Shikoku	Japan	116E	540	460 000	1 400	Sandstone	1945
1083	Ozebara	Tadami	Kanto	Japan	312RF	3 200	7 800 000	567 000	Conglom	Proposed
1084	Pachica			Chile	207RF			27 000		1929
1085	Pack (Koeflach)			Austria	108G	656				1931
1086	Pacoima	Pacoima	California	U.S.A.	380A	600	226 100	5 900	Gneiss Diorite	1929
1087	Pactola	Rapid Creek	S.D.	U.S.A.	225E	1 250		99 000		1955
1088	Paggy Creek		N.C.	U.S.A.	160E	1 472				1919
1089	Painted Rock	Gila	Arizona	U.S.A.	174E	4 710		2 480 000		Proposed
1090	Palisades	S.F. Snake	Idaho	U.S.A.	273E.RF	2 100	13 600 000	1 420 000	Andesite Alluvial	1956
1091	Palmdale	Little Rock Ck.	California	U.S.A.	175MA	724	25 000	5 500		1924
1092	Panchet Hill	Damodar		India	203E	17 460	6 400 000	970 000		Proposed
1093	Pantano d'Avio			Italy	196B		265 000	12 000		1950
1094	Papaloapan	Papaloapan		Mexico	230E	5 000				1952
1095	Paradise	Clark Fork	Montana	U.S.A.	250E	3 600				Proposed
1096	Pardee	Mokelumne	California	U.S.A.	345G	1 320	640 000	222 000	Schist	1929
1097	Pareloup	Viviou		France	156A	750	46 000	140 000	Gneiss Mica Schist	1952
1098	Pariat		C.P.	India	110E	3 650	577 000	15 000		1927
1099	Parker	Colorado	Calif-Ariz	U.S.A.	320A	856	312 000	717 000	Gneiss	1938
1100	Pas du Riot	Furens		France	113G			1 000	Mica Schist	1878

1101	Passe Dangereuse	Peribonka	Quebec	Canada	157G	1 186	151 000			1943
1102	Pathfinder	N. Platte	Wyoming	U.S.A.	210A	425	80 200	1 070 000	Granite	1910
1103	Patillas			Porto Rico	147E	1 020	920 000			1913
1104	Patjel			Java	114RF	360	104 000	39 000	Marl Limestone	1932
1105	Paugan Falls	Gatineau	Quebec	Canada	170G	917	235 000			1928
1106	Pavana	Limentra	Near Bologna	Italy	157MA	385	47 000	650		1925
1107	Pecos (Red Bluff)	Pecos	Texas	U.S.A.	104E	9 150	2 200 000	300 000		1937
1108	Pego do Altar			Portugal	205RF	630				1950
1109	Peixoto	Rio Grande		Brazil	200G	1 700	500 000	3 250 000	Quartzite	1957
1110	Pelton	Deschutes	Oregon	U.S.A.	200A	650	85 000		Tuff Basalt	Proposed
1111	Pend d'Oreille	Pend d'Oreille	B.C.	Canada	150RF					1932
1112	Pensacola	Grand	Oklahoma	U.S.A.	152MA	6 565	510 500	540 000	Limestone Chert	1940
1113	Perak see Malacca									
1114	Periyar	Periyar	Madras	India	178G	1 241	185 000	360 000	Syenite	1897
1115	Peter Green	Middle Santian	Washington	U.S.A.	316G					Proposed
1116	Philpott	Smith	Virginia	U.S.A.	220G	892	320 000	250 000	Schist	1953
1117	Piano dei Greci see Hone									
1118	Piano del Leone	San Christoforo		Italy	102G	354		3 500		1933
1119	Pian Palu			Italy	153G	574	190 000	10 800		1951
1120	Pickwick Landing	Tennessee	Tennessee	U.S.A.	113GE	7 715	3 596 000	418 000		1938
1121	Piave di Cadore	Piave		Italy	361A	1 280	495 000	52 000	Dolomite Limestone	1951
1122	Pigeon River see Waterville									
1123	Pine Canyon see Morris									
1124	Pine Flat	Kings	California	U.S.A.	440G	1 820	2 400 000	1 110 000	Amphibelite	1953
1125	Pine Portage	Nipigon	Ontario	Canada	140G	3 050	314 000			1950
1126	Pinet	Tarn		France	114G	550	115 000	550	Mica Schist	1928
1127	Pine View	Ogden	Utah	U.S.A.	103E	480	267 700	44 000	Sand Clay Limestone	1937
1128	Pintanane			Chile	196RF		23 000			1929
1129	Pipri (Riband)	Riband		India	300G	2 500		80 000 000		1955
1130	Pit River No.3	Pit	California	U.S.A.	120G	494	61 400	40 000	Tuff Lava	1925
1131	Pittsburgh		N.H.	U.S.A.	100E	2 200				1941
1132	Platoro	Conejos Creek	Colorado	U.S.A.	150E	1 500		60 000		1952
1133	Poglia	Oglio		Italy	1968		42 000			1950
1134	Point Lookout	Dan	Va	U.S.A.	130A	575	21 500			1939
1135	Pollaphuca	Liffey		Ireland	104G	300	24 000	120 000		1940
1136	Pont de Salara	Viaur		France	126A	600	35 000	12 000	Gneiss Mica Schist	1952
1137	Ponte Alto	Fessina	Trento	Italy	124A					1611
										1887
1138	Poolburn	Poolburn	Otago	New Zealand	114A	535	14 000	21 000		1931
1139	Poona	Khadakvala Lake Fill	Bombay	India	130G	4 827	380 000	83 600		1879
1140	Porsouk			Turkey	131G					1949
1141	Portefivme			Italy	103G	262	26 000			1930
1142	Possum Kingdom	Brazos	Texas	U.S.A.	189B	2 740	325 000	990 000	Shale Limest. Sandst.	1940
1143	Posticcioli see Turano									

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1144	Pothole	Pothole Creek	Alberta	Canada	130E			15 000		1948
1145	Potholes (O'Sullivan)	Crab Creek	Washington	U.S.A.	200E	19 000	8 600 000	615 000	Basalt	1949
1146	Potlatch see Cushman No.2									
1147	Pracana			Portugal	201B	755			Clay, Slate Quartz	1950
1148	Prado	Santa Ana	California	U.S.A.	106E	2 280	3 150 000	224 000	Sandstone Alluvium	1941
1149	Pragneres (Cap de Long)	Pau	Pyrenees	France	350A		320 000	50 000		1952
1150	Prele, La (Douglas)		Wyoming	U.S.A.	148B	330	22 500	24 000	Red Shale	1910
1151	President Aleman	Papaloapan		Mexico	200E	2 700	10 000 000		Limestone	1953
1152	Prettyboy	Gunpowder	Maryland	U.S.A.	147G	662	192 000	78 000	Schist	1934
1153	Pretty Valley	Kiewa	Victoria	Australia	211E,RF	1 250		162 000		1956
1154	Priest	Rattlesnake Ck.	California	U.S.A.	168E	1 160	734 300	2 300	Amphibolite Schist	1923
1155	Priest Rapids	Columbia	Washington	U.S.A.	200GE	12 000				Proposed
1156	Prince Alfonso			Spain	237G	490				1925
1157	Prizzi	Raia		Italy	151G	492		6 500		1943
1158	Provo	Deer Creek	Utah	U.S.A.	180E			145 000		1938
1159	Provvidenza	Vomano		Italy	147A	352		48 000		1949
1160	Puddingstone	Walnut Creek	California	U.S.A.	147A	2 700	864 300	17 400		1928
1161	Puentes	Guadalantin		Spain	164G	825				1791*
1162	Pukaki Lake			New Zealand	100E	2 000	350 000	735 000		1951
1163	Pulai		Singapore	Malaya	142G	600	260 000	4 470		1929
1164	Punta Negra			Argentina	327B	1 480 000	2 250			Proposed
1165	Pyhakoski	Oulujoki		Finland	148G	144 000			Granite	1948
1166	Pyke's Creek	Pyke's Creek	Victoria	Australia	116E	1 000	400 000	21 000		1930
1167	Pyke's Creek	Pyke's Creek		U.S.A.	100E			14 900		1908
1168	Quabbin Dike (Winsor)		Mass.	U.S.A.	135E	2 140	2 500 000			1938
1169	Quabbin Reservoir	Swift	Mass.	U.S.A.	170E	2 640	4 000 000	1 270 000	Alluvial	1938
1170	Quaker Ridge see New Croton									
1171	Queis		Silesia	Germany	148G					1905
1172	Quemahoning		Pa.	U.S.A.	106E					1920
1173	Rabiusa			Switzerland	131G	295	39 000	450		1949
1174	Radhangari		Kolhapur	India	140G		480 000	160 000		1951
1175	Raeterichsboden	Aare		Switzerland	295G	1 315	366 000	21 900		1952
1176	Railroad Canyon	San Jacinto	Calif	U.S.A.	100A	375	16 000	16 000	Slate	1928
1177	Ralston	Ralston Creek	Colorado	U.S.A.	200E	1 150	2 500 000			1938
1178	Ramapadasagar	Godaveri	Madras	India	428G	7 000	8 000 000	15 600 000	Rock	1960
1179	Rapel	Rapel	Colchagua	Chile	328G	690	655 000	2 190 000		Proposed
1180	Rapide Blanc	St. Maurice	Quebec	Canada	150G					1932
1181	Rattlesnake		Colorado	U.S.A.	115E	1 100				1952
1182	Recoleta	Hurtado	Coquimbo	Chile	153E	2 700	1 820 000	81 000		1934

1183	Rector Creek	Rector Creek	Calif.	U.S.A.	170E	800	1 340 000	44 000		1947
1184	Red Bluff see Pecos									
1185	Reeder Gulch see Ashland									
1186	Relief	M.F. Stanislaus	Calif.	U.S.A.	140RF	509	137 000	15 100		1909
1187	Rempen			Switzerland	107G	421	28 000	400	Shale	1924
1188	Requena			Mexico	125E	600		57 000		1919
1189	Requijada	Duero		Spain	171G			53 000		1935
1190	Ribang see Pipri									
1191	Richmond			S. Africa	200G					1923
1192	Ricobaya			Spain	326G		500 000	960 000		1935
1193	Ridgeway		Tasmania	Australia	190A	730	47 000	800		1918
1194	Rincon del Bonete	Negro		Uruguay	140B	3 846		7 500 000	Basalt	1943
1195	Ringedal	Tysse	Near Bardanger	Norway	115G	1 680	105 000	227 000		1918
1196	Rio	Mongaup	N.Y.	U.S.A.	105E	1 500	140 000			1926
1197	Rio Grande of Loiza	Rio Grande of Loiza		Puerto Rico	100G					1951
1198	Rio Puerco	Nr. Rio Grande	Texas	U.S.A.	125G			205 000		1936
1199	**Ripa**		Nr. Muro	Italy	154G	100				1916
1200	Rocchetta	Teglia		Italy	230G	441		4 000		1939
1201	Rochemolles	Rochemolles	Torino	Italy	193G	853	214 000	2 700		1929
1202	Rock Creek	N.F. Feather	Calif.	U.S.A.	120G	550	152 000	4 700		1950
1203	Rock Island	Columbia	Washington	U.S.A.	162G	4 400	200 000		Basalt	1931
										(1953)
1204	Rocky Gorge	Patuxent	Maryland	U.S.A.	130B	725				Proposed
1205	Rocky Valley		Victoria	Australia	100RF	1 700	630 000	22 000		1953
1206	Rodriguez	Tia Juana		Mexico	250B	2 200	240 000	110 000	Granite Rhyolite	1935
1207	Roosevelt	Salt	Arizona	U.S.A.	280G	723	342 000	1 420 000	Sandstone	1911
1208	Roseland see Bathie									
1209	Ross (Ruby)	Skagit	Washington	U.S.A.	228A 400A 590 635	1 275	75 000 672 000 2 400 000		Granite	1947 (1951) (1954) Proposed
1210	Rossens	Saane		Switzerland	272A	1 050	325 000	160 000		1948
1211	Rosshaupten		Bavaria	Germany	130E			110 000	Lava	1953
1212	Round Hill	Spring Creek	Pa.	U.S.A.	114G	220	38 000	4 000		1901
1213	Roxburgh	Clutha		New Zealand	240G	1 200	350 000	1 840 000		1955
1214	Roznow	Dunajec		Poland	150G	1 800	500 000			1939
1215	Ruby see Ross									
1216	Rumblar	Guadalquivir		Spain	213G		102 000			1935
1217	Ruskin	Stave	B.C.	Canada	184G	340	105 000			1931
1218	Rust-der-Winter	Elands		U.of S. Africa	105RF	690	144 000	22 000	Solid Felsite	1933
1219	Ryburn			England	123G	500				1932
1220	Saale (Bleiloch)	Saale		Germany	213G	700	236 000	174 000		1931
1221	Sabbione	Sabbione		Italy	198B	885	176 000	27 000		1953
1222	Sacandaga see Conklingville									
1223	Sada	Miya	Kinki	Japan	263G	705	475 000	40 500	Diabase	1956

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1224	Sadd-el-Aali	Nile		Egypt	350G	4½ Miles		134 000 000		Proposed
1225	Safford	Frye	Arizona	U.S.A.	110A	130	970	150	Diorite	1928
1226	Sagami	Sagami	Kanto	Japan	164G	640	283 000	46 000	Clay Slate Sandstone	1947
1227	Saigo	Abukuma	Tohoku	Japan	104E	730	385 000	2 500	Tuff	1954
1228	Saint Mark	Taurion	Haute Vienne	France	157G	580	90 000		Gneiss	1931
1229	Saint Peyres		Pyrenees	France	196G	608	157 000	27 000		1934
1230	Sakaigawa	Sakai	Tokai	Japan	266G	570	250 000	12 000		1957
1231	Sakarya	Sakarya		Turkey	360G	1 000	700 000	7 000 000		1954
1232	Sakashita	Kiso	Tokai	Japan	125G	530	149 000	810		1955
1233	Saketani	Kandogawa	Chugoku	Japan	230G	765	338 000	35 000	Granite	Proposed
1234	Sakuma	Tenryu	Tokai	Japan	508G	886	1 960 000	225 000	Granite	1957
1235	Salanfe			Switzerland	180B	1 970	265 000	40 000		1954
1236	Salarno	Lake Salarno		Italy	121G	850	94 000	6 000		1928
1237	Salinas	Salinas	California	U.S.A.	120A	370	60 000	26 000		1942
1238	Salmon Creek	Salmon Creek		Alaska	166A	640	52 000			1913
1239	Salmon	Salmon Falls Creek	Idaho	U.S.A.	200A	490		228 000	Lava	1912
1240	Salto			Italy	196G	425		70 000		1934
1241	Salt Springs	N.F. Mokelumne	California	U.S.A.	328RF	1 300	3 000 000	130 000	Granite	1931
1242	Saluda (Lake Murray)	Saluda	S.C.	U.S.A.	208E	7 838	11 000 000	2 300 000		1930
1243	Sameuna	Yoshino	Shikoku	Japan	152G		220 000	17 200	Slate	Proposed
1244	Sampson Brook		W. Aust.	Australia	100E	800	250 000	6 500		1940
1245	Sanaiona			Mexico	213E.RF		6 357 000			1947
1246	San Angelo	N. Concho	Texas	U.S.A.	100E	35 000	13 600 000	391 000		1952
1247	San Antonio	Noguera Pallaresa		Spain	269G	670	351 000	188 000	Limestone	1917
1248	San Antonio	Santa Ana	California	U.S.A.	100E			9 110		1955
1249	San Clemente (Carmel)	Carmel	California	U.S.A.	107A	270	7 000			1920
1250	San Cristoforo		Sicily	Italy	130G					1940
1251	San Dimas	Trib. San Gabriel	California	U.S.A.	130G	300	41 000	1 040		1922
1252	San Domenico	Sagittario		Italy	131A	148		900		1929
1253	San Fernando (Lower)	San Fernando Ck.	California	U.S.A.	142E	2 050	2 577 000	18 900		1916
1254	San Gabriel No.1	San Gabriel	California	U.S.A.	375RF	1 670	10 260 000	44 000		1938
1255	San Gabriel No.2	W.F. San Gabriel	California	U.S.A.	255RF	620	1 200 000	13 000		1935
1256	San Giacomo di Fraele	Adda		Italy	275B	1 365	650 000	47 000		1950
1257	Sanguineto (Val Nocel)	Nocl	Liguria	Italy	184G	712		2 800	Limestone	1931
1258	San Ildefonso			Mexico	203RF		484 000	42 000		1952
1259	San Joaquin	San Joaquin	California	U.S.A.	228A	954		35 000		Proposed
1260	San Jose			Mexico	151G	592				1925
1261	San Leandro, Lower	San Leandro Ck.	California	U.S.A.	135E	500	622 000	13 800		1876
										(1898)
1262	San Leandro, Upper	San Leandro Ck.	California	U.S.A.	185E	683	1 250 000	41 400		1926
1263	San Mateo (Crystal Springs)	San Mateo Creek	California	U.S.A.	154G	680	157 200	54 000	Sandstone	1889

1264	Sanglapur			India	100E	25 000		1 500 000		Proposed
1265	San Pablo	San Pablo Creek	California	U.S.A.	168E	1 230	2 250 000	43 200		1921
1266	San Pedro			Venezuela	150G	206	20 300			1947
1267	San Pietro (Witti) (Muro Lucano)	San Pietro	Potenza	Italy	159A	208		4 600		1917
1268	San Potito		Aquila	Italy	104E			270		1921
1269	San Roque		Cordoba	Argentina	114G	1 180		91 000		1931
1270	San Salvatore			Italy	251G			19 000		1934
1271	Santa Caterina	Ansiei		Italy	174G	578	117 000	4 900		1931
1272	Santa Cruz		New Mexico	U.S.A.	151A	502		7 000		1929
1273	Santa Felicia	Piru Creek	California	U.S.A.	200E					Proposed
1274	Santa Giustina	Noce		Italy	492A		157 000		Dolomite	1951
1275	Santa Luzia			Portugal	214A	625				1945
1276	Santeetlah	Little Tennessee	N.C.	U.S.A.	212A	1 150	195 000	131 000		1928
1277	Santiago Creek	Santiago Creek	California	U.S.A.	130E	1 420	789 000	25 000		1932
1278	Santiago River	Santiago		Mexico	142HA					1929
1279	San Valentino	Adige		Italy	101E					1950
1280	San Vicente	San Vicente Ck.	California	U.S.A.	190G	980	312 000	90 000	Schist Granite	1943
1281	Sardegnana	Sardegnana		Italy	124G	656		1 700		1930
1282	Sardis	Little Tallahatchie	Mississippi	U.S.A.	117E	15 300	16 868 000	1 560 000	Alluvial	1940
1283	Sariyar	Sakarya		Turkey	360G	625	730 000	1 540 000	Rock	1955
1284	Sarrans	Truyere	Aveyron	France	360G	710	590 000		Granite	1930
1285	Sarugaishi see Tase									
1286	Sarutani	Totsu	Kinki	Japan	233G	520	270 000	14 000	Shale	1956
1287	Saugatuck	Saugatuck	Conn.	U.S.A.	125G	1 000	80 000	37 000		1942
1288	Sautet	Drac	Dauphine	France	414A	263	130 000	106 000	Limestone	1934
1289	Sauzal	Cachapoal	O'Higgins	Chile	11EE	1 640	1 100 000	690		1947
1290	Savage	Otay	California	U.S.A.	167G	750	83 000	49 000		1919
1291	Savage River	Big Savage	Maryland	U.S.A.	188E	1 600	3 400 000			1942
1292	Saville	E.F. Farmington	Conn.	U.S.A.	137E					1939
1293	Sawpit	Sawpit Creek	California	U.S.A.	160A	539	56 200	320		1927
1294	Scais	Caronno		Italy	197B	702		6 700		1925
1295	Scandarello	Scandarello	Aquila	Italy	156G	672		9 200		1924
1296	Scanlon	Lois	B.C.	Canada	195HA	653	120 000			1946
1297	Schluchtseesperre	Schwarza		Germany	207G	820	156 000	86 000		1932
1298	Schöllneren Canyon			Switzerland	786		6 500 000			Proposed
1299	Schraeh see Waggital									
1300	Schwamenauel	Trib Rubr		Germany	180E	984	2 000 000		Schist Greywacke	1938
1301	Schwarza	Schwarza		Germany	150G	530	56 000	1 000		1940
1302	Schwarzenbach			Germany	213G		380 000	11 600		1926
1303	Scituate		R.I.	U.S.A.	180E	3 200	2 500 000			1924
1304	Scott	South Eel	California	U.S.A.	120G	815	108 000	94 000		1921
1305	Scott's Flat	Deer Creek	California	U.S.A.	140E	660	650 000	26 300		1949
1306	Seeuferegg			Switzerland	138G	1 150	92 000	10 500	Granite	1930

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1307	Sella	Ticino		Switzerland	118G	1 080	97 000	7 200		1947
1308	Selvet			France	212A					1951
1309	Seminoe	N. Platte	Wyoming	U.S.A.	260A	540	173 000	1 000 000	Granite	1939
1310	Sengbach (Glüder)			Germany	141G	580	85 000	2 500		1903
1311	Senjingani (Kurobe No.3)	Kurobe	Hokuriku	Japan	108G	252				1941
1312	Senju	Sumasta	Tokai	Japan	207G	600	164 000	3 600	Sandstone	1935
1313	Sennar	Nile		Sudan	129G	9 900	550 000	517 000	Gabbro	1925
1314	Serre - Poncon			France	390E	1 970	18 500 000			Proposed
1315	Setoishi	Kuma	Kyushu	Japan	208G	830	400 000	87 000	Sandstone & Slate	1957
1316	Seyhan	Seyhan		Turkey	180E	4 900				Proposed
1317	Shadehill	Grand	S. Dakota	U.S.A.	118E	13 000	4 900 000			1951
1318	Shasta	Sacramento	California	U.S.A.	602G	3 500	6 230 000	4 390 000	Meta Andesite	1943
1319	Shasta River	Shasta	California	U.S.A.	100E	1 234	690 000			1928
1320	Shaver Lake	Stevens Creek		U.S.A.	180G	2 170	280 000	136 000		1927
1321	Sherman	Deerfield	Mass.	U.S.A.	100E	700	295 000			1927
1322	Shibara	Itsuki-Kuma	Kyushu	Japan	244G		445 000	10 700	Sandstone	Proposed
1323	Shiea	Nahari	Shikoku	Japan	328G	920	450 000	52 000	Slate	Proposed
1324	Shimoitsuki	Kuma	Kyushu	Japan	299G					1957
1325	Shimokotori	Kotori	Tokai	Japan	420G	1 080	1 050 000	96 000		1957
1326	Shing Mun		Hong Kong	China	295G.RF	680	160 000G 480 000R	11 650		1936
1327	Shinabugawa	Ahu	Chugoku	Japan	235G	900	352 000	49 000	Granite	Proposed
1328	Shinbashi	Kuma	Kyushu	Japan	230G	800	390 000	2 300	Slate	1957
1329	Shinjo	Katsuura	Kinki	Japan	115G	452	74 000	4 500	Clay Slate Sandstone	1951
1330	Shinomine	Uji	Kinki	Japan	107G	300	40 000	420		1956
1331	Shipshaw No.2	Saguenay	Quebec	Canada	120G	4 500	500 000			1943
1332	Shirawta		Bombay	India	127G	7 600	630 000	151 000	Trap	1920
1333	Shizugawa	Yodo	Kinki	Japan	101G	300				1924
1334	Shoshone	Shoshone	Wyoming	U.S.A.	328A	200	70 000	456 000	Granite	1910
1335	Showaike	Sogatani	Kinki	Japan	105E	270	80 000	340	Breccia	1930
1336	Sidney (E. Sidney)	Ouleout	N.Y.	U.S.A.	128G.E.	750 concrete 250 earth				1950
1337	Silvan		Victoria	Australia	136E	2 100	1 738 000	32 000	Shaly Mudstone	1932
1338	Simmonds Creek	Blue	Washington	U.S.A.	275G					Proposed
1339	Sioule	Sioule		France	100G	394				1904
1340	Skoplje			Yugoslavia	125A					1941
1341	Sly Creek	Lost Creek	California	U.S.A.	225R.F					1954
1342	Smoky Falls	Mattagami	Ontario	Canada	100G	1 700	118 000			1928
1343	Sodeyama	Kitakami	Tohoku	Japan	108G	395	35 000	3 000	Slate	1943
1344	Solbergfoss (Markfoss)	Glomma		Norway	154G	174				1924
1345	Soldier Canyon		Colorado	U.S.A.	205E	1 424	3 272 000	137 000		1949
1346	Somerset	Stanley	Queensland	Australia	183G	1 010	300 000	725 000	Porphyrite	1942

1347	Somerset	Deerfield	Vt. Mass.	U.S.A.	110E	2 100	1 000 000	62 000		1913
1348	Sonico-Cedegolo	Poglia		Italy	165B					1953
1349	Sorpe			Germany	226E	2 300	4 250 000	66 000		1931
1350	Sasagamine	Saki	Hokuriku	Japan	157GE	1 000			Clay Slate	Proposed
1351	Sosetalsperre			Germany	186E			20 300		1931
1352	Sounbetsu No.1	Ishikari	Hokkaido	Japan	185G	540	220 000	25 000	Andesite	Proposed
1353	South Boulder Creek Canyon	South Boulder Ck	Colorado	U.S.A.	340G	1 022		42 000		1954
1354	South Coulee	Near Columbia	Washington	U.S.A.	110E	9 880	1 600 000			1949
1355	South Holston	Holston	Tennessee	U.S.A.	285E	1 550	5 900 000	783 000	Sandstone	1951
1356	South Para River	Para	S. Aust.	Australia	146E	950	800 000	37 000		Proposed
1357	South Spullersee			Austria	112G			9 000		1924
1358	Soyama	Sho	Hokuriku	Japan	229G	520	188 000	6 900	Granite	1930
1359	Spanish Springs		California	U.S.A.	112E	2 815	1 700 000	300 000		1913
1360	Spaulding Lake	S.F. Yuba	California	U.S.A.	275A	780	192 000	74 500		1913
										(1920)
1361	Spavinaw		Oklahoma	U.S.A.	105G			100 000		1951
1362	Spencer Creek	Snowy	N.S.W.	Australia						Proposed
1363	Spiers Falls	Hudson	N.Y.	U.S.A.	154G	550	180 000		Granite	1905
1364	Spigno Monferrato see Valla									
1365	Spitallamm see Grimsel									
1366	Spluga see Liro									
1367	Spray	Spray	Alberta	Canada	190E	625				1950
1368	Spring Canyon	E. Muddy Creek	Colorado	U.S.A.	130E	1 300	2 210 000	137 000		1950
1369	Standley Lake		Colorado	U.S.A.	113E	6 630	3 250 000	96 000		1912
1370	Stanislaus	M.F. Stanislaus	California	U.S.A.	275RF	1 150		97 500		Proposed
1371	Stanley see Mettur									
1372	St. Etienne Cantales	Cere		France	230A	886	163 000		Granite	1946
1373	Stevens see Mud Mountain									
1374	Stevens Creek	Stevens Creek	California	U.S.A.	120E	1 080	386 000	4 000		1935
1375	Stevenson	Housatonic	Conn.	U.S.A.	120G	600				1919
1376	Stewart Mountain	Salt	Arizona	U.S.A.	212A	1 200	117 000	70 000	Granite	1930
1377	Stewartville	Madawaska	Ontario	Canada	206G	1 300	283 000		Limestone	1948
1378	St. Francis	San Francisquito	California	U.S.A.	205G	650	175 000	38 000		1926*
1379	Stirling	Harvey	West Aust.	Australia	158E	930	626 000	44 000		1947
1380	St. Mary's	St. Mary	Alberta	Canada	190E	2 500	4 500 000	290 000	Glacial Till	1952
1381	Stone Canyon	Stone Canyon Ck	California	U.S.A.	175E	567	729 900	8 100		1924
1382	Stoney Gorge	Stoney Creek	California	U.S.A.	120B	868	43 000	50 000	Sandstone & Agglom.	1928
1383	Strawberry	S.F. Stanislaus	California	U.S.A.	160RF	612	330 000	18 000	Cemented Gravel	1917
1384	Strike C.J.	Snake	Idaho	U.S.A.	132E	3 274	2 900 000	250 000	Clayey Silt	1952
1385	St. Saviours			Guernsey	125G	860				1947
1386	Stuetta	Liro	Sondrio	Italy	103G	656	92 000	18 600	Gneiss & Limestone	1931
1387	Sturgeon Pool		New York	U.S.A.	108G					1920
1388	Sudagai	Tone	Kanto	Japan	290A	980	297 000	21 000	Granite	1955

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE 1 (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1389	Suekawa	Sue	Tokai	Japan	148G	410	117 000	19 000		Proposed
1390	Suganami	Takatoki	Kinki	Japan	148G	495	102 000	8 100		1956
1391	Sugarloaf see Eildon									
1392	Suiho	Yalu		Korea	350G	3 280				1944
1393	Sukenobu	Koguchi	Hokuriku	Japan	150G	430	52 000	6 000	Granite	1930
1394	Sultan No.1	Sultan	Washington	U.S.A.	310G			234 300		1952
1395	Sultan No.2	Sultan	Washington	U.S.A.	300A					Proposed
1396	Sun Chi Kok			Korea	130G			520		1909
1397	Sun River	Sun	Montana	U.S.A.	120A	250	6 200			1915
1398	Sun River Diversion	Sun	Montana	U.S.A.	129AG		27 000			1930
1399	Sutherland	Santa Ysabel	California	U.S.A.	180MA	1 020	1 100	29 000		1928
										(1952)
1400	Suviana	Limentra	Nr.Bologna	Italy	293G	721	366 000	29 000		1933
1401	Swansea			Wales	144G	1 250				1905
1402	Sweasey see Mad River									
1403	Sweetwater	Sweetwater	California	U.S.A.	129G(6)		54 000	37 000	Porphyry	{1888 1895 1913 1943}
								(1916)		
1404	Sweetwater Falls see Lake Loveland									
1405	Swift		Montana	U.S.A.	165E	465				1914
1406	Syr Darya	Syr Darya		Russia						Proposed
1407	Tabeaud	Jackson Creek	California	U.S.A.	123E	636	370 000	1 100	Hardpan Slate	1902
1408	Table Mountain	Umgeni	U.of S. Afr	U. of S. Africa	169G	1 400		18 000	Granite	1950
1409	Table Rock	White	Missouri	U.S.A.	272GE	1 600G	1 700 000	2 826 000		1958
						4 800E				
1410	Table Rock Cove		S.C.	U.S.A.	140E	910	600 000	28 000		1927(?)
1411	Tache see Chartrain									
1412	Taf Fechan		Brecknock	Wales	107E	1 010	730 000	12 800		1927
1413	Ta - Fung - Man	Sungari		Manchuria	300G	3 800			Rock	1945
1414	Tagokura	Tadami	Tohoku	Japan	450G	1 200	1 900 000	220 000	Andesite Tuff	1956
1415	Taiga	Kosan		Korea	100G	830	91 000	16 000	Granite	1922
1416	Taishaka	Taishaka	Chugoku	Japan	212G	110	43 000	12 000	Limestone	1930
1417	Takadomari	Uryu	Hokkaido	Japan	108G	532	72 000	12 000	Diorite Aplite	1953
1418	Takamon	Kumano	Kinki	Japan	115G		80 000	4 000	Liparite	Proposed
1419	Takaoka	Oyodo	Kyushu	Japan	120G	410	91 000	2 600	Mudslate	1932
1420	Taki	Tadami	Tohoku	Japan	180RF	1 200	1 300 000	11 000	Liparite	Proposed
1421	Talarn	Pallaresa		Spain	272G			176 000		1922
1422	Tallulah (Burton)		Georgia	U.S.A.	116G	400		120 000		1914
1423	Tamuko	Shō	Hokuriku	Japan	100G	394	51 000	560		1958
1424	Tandula		C.P.	India	107E	14 500	3 420 000	223 000		1921
1425	Tansa		Bombay	India	133G	9 300	480 000	130 000	Traprock	1891
1426	Tantangra	Murrumbidgee	N.S.W.	Australia	150G			300 000		Proposed

1427	Tartano	Tartano		Italy	187G	230		1 300		1929
1428	Tase (Sarugaishi)	Kitakami	Tohoku	Japan	267G	1 080	581 000	119 000	Serpentine	1954
1429	Tateiwa	Ota	Chugoku	Japan	221G	587	180 000	15 000	Sandstone Clay Slate	1939
1430	Tatsumiyama	Shonomata	Tohoku	Japan	101G	340	274 000	400	Granite	Proposed
1431	Taxhimay			Mexico	134RF	765				1934
1432	Taylor Park	Taylor	Colorado	U.S.A.	190E	620	1 063 000	106 000	Phyllites	1937
1433	Temescal	Temescal Creek	California	U.S.A.	115E	650	262 000	900		1868
										(1886)
1434	Tenkiller Ferry	Illinois	Oklahoma	U.S.A.	190E	3 000		1 230 000		1953
1435	Tennessee Creek	E.F. Tuckasegee	N.C.	U.S.A.	180RF					1954
1436	Tepuxtepec	Lerma		Mexico	123RF	900	108 000	405 000	Tuff Basalt	1929
1437	Ternay	Ternay		France	125G	525		2 000		1868
1438	Terrace	Alamoosa	Colorado	U.S.A.	180E	605	500 000	16 800		1909
1439	Tezcapa			Mexico	175E					1930
1440	Thambaparani		Madras	India	215G	1 174	177 000	101 000		1943
1441	Thaya	Thaya	Moravia	Czechoslovakia	200G		292 000	130 000		1936
1442	Thirlmere	Thirlmere Lake		England	112G	600		30 600	Ledge Rock	1894
1443	Thokerwadi		Bombay	India	195G	1 875	278 000	295 000		1922
1444	Tiber	Lower Marias	Montana	U.S.A.	196E	4 300				1955
1445	Tidoncello			Italy	148MA			4 100		1925
1446	Tidone see Molato									
1447	Tieton	Tieton	Washington	U.S.A.	223E	920	2 000 000	197 000	Shale Andesite	1924
1448	Tiger Creek Afterbay	N.F. Mokelumne	California	U.S.A.	112A	450	12 000	3 800		1930
1449	Tiger Creek Regulating	Tiger Creek	California	U.S.A.	100B	470	13 500	540		1932
1450	Tignes	Isere		France	590A	980	825 000	190 000	Quartzite	1952
1451	Tilaiya	Barakar		India	112G	1 150	137 000	300 000		1954
1452	Tingambato	Tingambato		Mexico						1954
1453	Tionesta		Pa	U.S.A.	154E					1941
1454	Tirso (Santa Chiara di Ula)	Tirso		Italy	206MA	787	200 000	306 000	Rhyolite Trachyte	1923
1455	Titicus	Titicus	N.Y.	U.S.A.	135G.E	1 519	149 000	22 000	Hardpan	1895
1456	Toba	Jucar		Spain	118G			32 000		1935
1457	Togawa	Komaru	Kyushu	Japan	212G	510	180 000	28 000	Graywacke	Proposed
1458	Tokomaru	Tokomaru		New Zealand	102G	430	22 000	600		1924
1459	Tonoyama	Hioki	Kinki	Japan	184A	400	54 000	12 000		1955
1460	Toowoomba see Cooby Creek									
1461	Topatopa	Sespe Creek	California	U.S.A.	300A					Proposed
1462	Torre			Italy	115A					1920
1463	Torside			England	100E					1890
1464	Toyomi	Agano	Tohoku	Japan	103G	675	145 000	4 900	Granite	1929
1465	Toyosawa	Kitakami	Tohoku	Japan	186G	460	104 000	14 600	Granite	Proposed
1466	Tranco de Beas	Guadalquivir		Spain	295G			406 000		1935
1467	Tremp	Noguera Pallaresa	Catalonia	Spain	269G	666	353 000		Sandstone	1920
1468	Trenton	Republican	Nebraska	U.S.A.	145E	18 400	5 600 000			1953
1469	Trinity	Trinity	Oregon	U.S.A.	430E	3 300		1 800 000		Proposed

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1470	Trona	Lake Trona		Italy	196B	595 *	109 000	4 300		1943
1471	Tsubashihara	Shō	Kansai	Japan	217G	628	208 000	4 200	Granite	1953
1472	Tsuga	Watari	Shikoku	Japan	149G	475	98 000	8 500	Sandstone Shale	1944
1473	Tsukabaru	Mimi	Kyushu	Japan	283G	700	364 000	16 200	Sandstone Clay Slate	1938
1473A	Tsukahara	Tsubusa	Kyushu	Japan	138G	146	27 300	940	Agglom.	1933
1474	Tugalo		Ga	U.S.A.	155G	850				1923
1475	Tumut Pond	Tumut Pond	N.S.W.	Australia	300A		193 000			1955
1476	Tungabhadra	Tungabhadra Trib. of Krishna		India	160G	6 000	1 200 000	3 000 000		1954
1477	Tunhovd	Numedalslaagen		Norway	124G	920				1920
1478	Tunnel see Missisagi									
1479	Turano (Posticcioli)	Turano		Italy	236G	843		132 000		1939
1480	Turrite (Gangheri)	Turrite di Gallicano	Lucca	Italy	122A	213		700		1922
1481	Turrite Cava			Italy	117G	413		1 093		1942
1482	Tuttle Creek	Blue	Kansas	U.S.A.	100E					1955
1483	Tuxedo	Green	N.C.	U.S.A.	121A	370				1917
1484	Twin Falls			U.S.A.	137G			72 000		1912
1485	Tygart	Tygart	W. Va.	U.S.A.	240G	1 850	1 200 000	327 000	Sandstone Shale	1938
1486	Tytam Tuck		Hong Kong	China	127G	1 195	129 000	5 300	Gran. & Boulders	1919
1487	Uahamiyadani	Uahamiyadani	Shikoku	Japan	106G	420	30 000	45	Schist	1936
1488	Uchigatani No. I	Uchigatani	Tokai	Japan	172G	455	33 000		Sandstone & Slate	Proposed
1489	Uchikawa	Ina	Tohoku	Japan	390G	1 400	2 000 000	280 000	Granite	Proposed
1490	Uchitani	Kuma	Kyushu	Japan	205E	790	770 000	7 300	Sandstone Clay Slate	Proposed
1491	Uedaikeisha	Ueda	Kinki	Japan	138G	430	50 000	1 200	Sandstone	1932
1492	Umberumberka	Umberumberka Ck		Australia	134G	680	57 000			1950
1493	Umgeni		Natal	S. Africa	180G	1 250	250 000			1949
1494	Umshandige	Umshandige		S. Rhodesia	120G	240	25 000	31 000	Quartzite	1939
1495	Union Falls	Saco	Maine	U.S.A.	150G	500	60 000			1940
1496	Union Village	Ompompanoosue	Vt.	U.S.A.	170E	1 100				1949
1497	Upper Narrows see Englebright									
1498	Upper Oued Djendjen			Algeria	230G			163 000		Proposed
1499	Upper Oued Kebir			Algeria	260G			80 000		Proposed
1500	Upper Shira see Glen Shira									
1501	Upper Yarra		Victoria	Australia	260E		7 000 000	110 000		Proposed
1502	Urakawa	Ina	Tokai	Japan	126G	328	49 000	6 500		Proposed
1503	Uren	Toyokawa	Tokai	Japan	178G	715	144 000	16 300	Rhyolite Tuff	1956
1504	Urft	Urft		Germany	190G	741	175 000	37 000	Mica Schist & Slate	1903
1505	Uryu	Ishikari	Hokkaido	Japan	145G	752	229 000	198 000	Andesitic Agglomerate	1943
1506	Uwada	Tadami	Tohoku	Japan	120G	800	140 000	3 000	Tuff Breccia	1953
1507	Vaaldam	Vaal		U.of S. Africa	160G	1 900	260 000	873 000	Quartzite	1938
1508	Vado	Tajo		Spain	180G			31 000		1935

1509	Vagli	Edron		Italy	194G	272		6 900		1949
1510	Vail	Temecula Creek	California	U.S.A.	150A	790	23 000	50 000		1949
1511	Vaitarna	Vaitarna	Bombay	India	261G	1 820		170 000	Basalt	1955
1512	Vajont	Vajont		Italy	840A				Dolomite Limestone	Proposed
1513	Val Gallina	Val Gallina		Italy	290A	738	128 000	4 800	Limestone	1952
1514	Val d'Auna		Bolzano	Italy	185A	510	80 000			1951
1515	Val de Gaio			Portugal	167E.RF	1 200				1950
1516	Val de Infierno	Luchena		Spain	116G	330		Filled Up		1781
1517	Val Noce see Sanguineto									
1518	Valla (Spigno Monferrato)			Italy	131A	472		1 800		1925
1519	Vallecito	Los Pinos	Colorado	U.S.A.	125E	4 010	3 714 000	126 000	Moraine Sandst. Shale	1941
1520	Valle di Cadore	Boite		Italy	201A	100	5 200	3 000	Dolomitic Limestone	1950
1521	Valsequillo	Atoyac		Mexico	269RF	1 500	968 000		Limestone Conglom.	1948
1522	Valtoggia	Formazza	Novara	Italy	149G	649	124 000	12 200	Schist	1935
1523	Vamatos			Norway	104G	235				1907
1524	Vamma	Glomma		Norway	128G	920				1915
1525	Van Giesen	Bear	California	U.S.A.	100A	365	22 000			1928
1526	Vani Vilas (Vanivilassa Sagara)		Mysore	India	163G	1 330	283 000	629 000		1907
1527	Vannino			Italy	100RF	380	118 000	11 700		1922
1528	Van Ryneveld's Pass	Sundays		U.of S. Africa	151G	1 170	130 000	64 000	Shale Quartzite	1924
1529	Venina	Venina	Sondrio	Italy	144MA	718		8 000		1927
1530	Vermunt	Ill.		Austria	172G	1 260	188 000			1932
1531	Verse	Ruhr		Germany	197E	1 050	1 770 000	25 200		1950
1532	Versilhac			France	197A		110 000	32 000		1949
1533	Vesdre			Belgium	200G	1 350	500 000			1949
1534	Victoria	Ontanogon	Michigan	U.S.A.	120MA	650			Sandstone	1931
1535	Vigario	Paraiba	Rio de J.	Brazil	158E	585	925 000	27 500		1951
1536	Vigario Dike	Paraiba	Rio de J.	Brazil	148E	770	815 000	27 500		1950
1537	Vila Nova	Rabagao		Portugal	300G					1951
1538	Vilcuya			Chile	278RF			65 000		1930
1539	Villar	Lozoya		Spain	170G	546		15 000		1878
1540	Vingeanne			France	114G					1885
1541	Virgin River	Virgin	Nevada	U.S.A.	120E					1928
1542	Voigtland see Geigenbach									
1543	Vranov	Dyje		Czechoslovakia	180G	958				1933
1544	Vyrnwy	Vyrnwy		England	136G	1 350	260 000	45 000	Slate	1889
1545	Wachusset	Nashua	Mass	U.S.A.	228G	971	267 000	193 000	Granite Schist	1906
1546	Wachusset North Dike	Nashua	Mass	U.S. .	100E	11 000	5 500 000			1906
1547	Waggital (Schraeh)			Swit erland	362G	510	310 000	119 000		1925
1548	Waghad		Bombay	India	105E	4 840	174 000	12 000		1911
1549	Wainganga	Godaveri		India	155E					1955
1550	Waitaki	Waitaki		New Zealand	122G	1 713	271 000	6 000	Greywacke	1934
1551	Walawe Ganga			Ceylon	110E	17 500				1955

SUMMARIZED DATA ON DAMS OVER 100 FEET HIGH — TABLE I (CONT'D)

REF. NO.	NAME	RIVER	STATE	COUNTRY	HEIGHT & TYPE	LENGTH	CONTENT CU. YD.	ACRE-FEET	FOUNDATION	YEAR COMPLETED
1552	Waldeck	Eder		Germany	147G	900	390 000	164 000		1921
1553	Wallpack Bend	Delaware	N.J. Pa	U.S.A.	100G			360 000		Proposed
1554	Walnut Grove	Hassayampa	Arizona	U.S.A.	110RF	50 000	69 000			1887*
1555	Walters see Waterville									
1556	Wanaque		N.J.	U.S.A.	100E	1 500	830 000	103 000		1926
1557	Waneta	Pend Oreille	B.C.	Canada	243G	900	340 000			1954
1558	Warm Springs	Malheur	Oregon	U.S.A.	108A	549	19 400	170 000	Basalt	1920
1559	Warragamba	Warragamba	N.S.W.	Australia	394G	1 300	1 500 000	1 580 000		1950
1560	Wassen			Switzerland	111G		14 000	80		1948
1561	Watauga	Watauga	Tenn	U.S.A.	320E.RF	900	3 500 000	627 000	Quartzite	1948
1562	Waterville (Walters) (Pigeon River)	Pigeon	N.C.	U.S.A.	200A	870	120 000	25 000		1928
1563	Watt's Bar	Tennessee	Tenn	U.S.A.	112GE	2 960	1 653 000	1 132 000		1942
1564	Webber Creek		Calif	U.S.A.	120MA	320				1923
1565	Whakamaru			New Zealand	175G	900	180 000			1954
1566	Wharton River	Wharton	Alberta	Canada	150E	3 600		132 000		Proposed
1567	White Salmon	White Salmon	Oregon	U.S.A.	125G	471				1912
1568	Whitney	Brazos	Texas	U.S.A.	167GE	7 500 (9 600 total)		1 760 000	Limestone	1953
1569	Whittier Narrows	San Gabriel	Calif	U.S.A.	100G					1955
1570	Wichita Falls see Big Wichita									
1571	Wiley A.J.	Snake	Idaho	U.S.A.	100E				Alluvial	Proposed
1572	Wiley Creek		Wash	U.S.A.	205G					Proposed
1573	Willow Creek	Willow Creek	Oregon	U.S.A.	110E	1 300	452 000	5 000		Proposed
1574	Wilson (Bhandardara) (Lake Arthur Hill)	Pravara	Bombay	India	270G	1 663	445 000	257 000		1926
1575	Wilson (Muscle Shoals)	Tennessee	Ala	U.S.A.	140G	4 860	1 316 000	490 000	Limestone	1926
1576	Winsor see Quabbin									
1577	Wishon	King	Calif	U.S.A.	260RF	3 760		128 000		Proposed
1578	Witznau	Schwarza		Germany	160G	380	82 000	1 000		1940
1579	Wolf Bayou	White	Arkansas	U.S.A.	181G	4 790	1 591 000	1 634 000		Proposed
1580	Wolf Creek	Cumberland	Kentucky	U.S.A.	240G	5 736	1 400 000	6 089 000	Limestone	1952
1581	Wood Falls	Lamoille	Vermont	U.S.A.	147E					1949
1582	Woronora	Woronora	N.S.W.	Australia	200G	1 280	373 000	58 000		1941
1583	Wyangala	Lachlan	N.S.W.	Australia	190G	1 000	243 000	304 000	Granite	1935
1584	Wyman (Bingham)	Kennebec	Me	U.S.A.	120E	2 400				1930
1585	Yagisawa	Tone	Kanto	Japan	375A	1 180	780 000	95 000	Granite	1957
1586	Yakuma	Mogami	Tohoku	Japan	394G	1 050	910 000	60 000	Granite	1957
1587	Yale	Lewis	Wash	U.S.A.	323E	1 500	4 200 000		Tuff & Basalt	1952
1588	Yamadaikushi	Yamada	Kinki	Japan	100G	250	21 000	405	Liparite	1933
1589	Yamagiuchi	Tama	Kanto	Japan	107E	2 263	1 883 000	15 000	Conglom.	1933
1590	Yamaguchi	Kuma	Kyushu	Japan	145E	400	630 000	4 100	Sandstone Clay Slate	Proposed
1591	Yanaizu	Tadami	Tohoku	Japan	116G	620	79 000	4 050	Tuff	1953

1592	Yanase see Dozangawa									
1593	Yangtze	Yangtze		China	750G		15 000 000	50 000 000		Proposed
1594	Yarmuk	Yarmuk		Lebanon	400G					Proposed
1595	Yarrow			England	100E					1905
1596	Yasugawa	Yodo	Kinki	Japan	183G	492	124 000	5 800	Sandstone Clay Slate	1952
1597	Yasuoka	Tenryu	Tokai	Japan	172G	561	192 000	3 240	Biotite Granite	1942
1598	Yauco	Lajas		Puerto Rico	178G					1952
1599	Yesa			Spain	205G			381 000		1935
1600	Yeso	Yeso	Santiago	Chile	200E	1 150	2 350 000	243 000		1959
1601	Yorikane	Sinzyo	Shikoku	Japan	121G	590	125 000			Proposed
1602	Yoroihata	Yama	Tohoku	Japan	235G	850	416 000	45 000		1955
1603	Yotsuura	Kuma	Kyushu	Japan	158A	675	95 000	4 500	Sandstone	1959
1604	Youghiogheny	Youghiogheny	Pa	U.S.A.	184E	1 600	3 000 000	247 000		1945
1605	Yubara	Asahigawa	Chugoku	Japan	230G	660	310 000	69 000	Granite	Proposed
1606										
1607										
1608	Yusubaragawa	Yusubara	Shikoku	Japan	214G	750	460 000	33 000		Proposed
1609	Zardezas			Algeria	115G			12 000		1935
1610	Zashu (Marayana)	Ichinohazama	Tohoku	Japan	153G	308	115 000	30 000	Andesite	1956
1611	Zerbino see Molare									
1612	Zesere see Castelo do Bode									
1613	Zillierbach	Zillier	Saxony	Germany	131G	360				1935
1614	Zizobara	Zizobara	Kyushu	Japan	104E	307				1922
1615	Zola			France	123A	205		1 200		1843
1616	Zschopau (Kriebstein)			Germany	108G	787				1929

TABLE IIa

DAMS 400 FEET HIGH AND OVER

Gravity	
Ashley	440
Bhakra	680
Chambon	450
Chatra	750
Clearwater	516
Crystal	595
Detroit	463
Echo Park	525
Feather River	710
Fontana	470
Glen Canyon	580
Grand Coulee	550
Grand Dixence	912
Hoover	726
Kaikawaguchi	412
Kurobe No. 4	590
Manora	600
Mossy Rock	510
Nanairo	490
Ogochi	490
Okutadami	526
Oroville	710
O'Shaugnessy	430
Owyhee	417
Pine Flat	440
Ramapadasagar	428
Sakuma	508
Schoelleren	700
Shasta	602
Shimokotori	420
Tagokura	450
Yangtse	750
Yarmuk	400

Arch	
Bin-el-Ouidane	437
Bridge Canyon	637
Cabril	411
Hungry Horse	546
Karadj	490
Lumiei	445
Mauvoisin	745
Non	460
Ross	540
Santa Giustina	492
Sautet	414
Tignes	590
Vajont	840

Earthfill	
Ambuklao	420
Anderson Ranch	456
Glacier View	416
Mud Mountain	425
Trinity	430

Note: Underlining indicates "Proposed".

TABLE IIb

DAMS 300 TO 399 FEET HIGH

Gravity

Arimine	350
Arrowrock	348
Bluff	315
Camarasa	333
Cougar Creek	335
Curecanti	360
Deai	390
Elephant Butte	306
El Fuerte	300
Exchequer	326
Forte Buso	328
Friant	320
Fujinose	369
Fujiwara	318
Genissiat	340
Grimsel	374
Hiwassee	307
Ikari	354
Ikawa	325
Kamikotori	344
Kariba Gorge	300
Kawamata	369
Kensico	307
Koyna	300
Libby	350
Lower Oued Djendjen	328
Manogatani	370
Marble Canyon	300
Media Flumendosa	330
Morris	328
Pardee	345
Peter Greene	316
Pipri	300
Rapel	328
Ricobaya	326
Sadd-el-Aali	350
Sakarya	360
Sariyar	360
Sarrans	360
Shima	328
South Boulder Creek Canyon	340
Suiho	350
Sultan No. 1	310
Ta-Fung-Man	300
Uchikawa	390
Villa Nova	300
Waggital	362
Warragamba	394
Yakuwa	394

Buttress

Ancipa	305
Punta Negra	327

Arch

Alder	330
Ariel	313
Bathie	344
Bort	393
Capilano	325
Castelo do Bode	377
Castillon	325
Diablo	389
Digue la Vina	344
Horse Mesa	305
Kamiitsuka	311
Kamishiiba	366
Kaprun	393
L'Aigle	312
Monforte	350
Mooserboden	312
Pacoima	380
Parker	320
Pieve di Cadore	361
Pragneres	350
Shoshone	328
Sultan No. 2	300
Topatopa	300
Tumut Pond	300
Yagisawa	375

Rockfill

Brownlee	370
Hells Canyon	320
Kenney	317
Milporc	390
Ozebara	312
Salt Springs	328
San Gabriel No. 1	375

Earthfill

Cardenas	302
Cherry Valley	315
Kajakai	321
Lucky Peak	320
Navajo	335
Serre Poncon	390
Watauga	320
Yale	323

Note: Underlining indicates "Proposed".

TABLE III

SUMMARY OF GRAVITY DAM BUILT PER DECADE

Pericd	Height in Feet				Totals	
	100-199	200-299	300-399	400 & Over	Per Decade	Cumulative
Tore 1850	3				3	3
50-59	2				2	5
60-69	2				2	7
70-79	6				6	13
80-89	10				10	23
90-99	13				13	36
00-09	37	2			39	75
10-19	34	10	3		47	122
20-29	93	17	4	1	115	237
30-39	95	38	3	3	139	376
40-49	75	12	6	3	96	472
50-	93	56	14	11	174	646
tals	463	135	30	18		
pposed	37	39	18	14		108

TABLE IV

SUMMARY OF ARCH DAMS BUILT PER DECADE

Period	Height in Feet				Totals	
	100-199	200-299	300-399	400 & Over	Per Decade	Cumulati
Before 1850	2				2	2
1850-1859						2
1860-1869						2
1870-1879						2
1880-1889						2
1890-1899						2
1900-1909	1				1	3
1910-1919	15	3	1		19	22
1920-1929	37	9	2		48	70
1930-1939	17	10	3	1	31	101
1940-1949	18	9	4	2	33	134
1950-	13	14	12	7	46	180
Totals	103	45	22	10		
Proposed	3	3	3	3		12

TABLE V

SUMMARY OF MULTIPLE ARCH DAMS BUILT PER DECADE

Period	Height in Feet		Totals	
	100-199	200-299	Per Decade	Cumulative
1890-1899	1		1	1
1900-1909				1
1910-1919	4		4	5
1920-1929	19	4	23	28
1930-1939	5	1	6	34
1940-1949	4		4	38
1950-				
Totals	33	5		

TABLE VI

SUMMARY OF BUTTRESS DAMS BUILT PER DECADE

Period	Height in Feet			Totals	
	100-199	200-299	300-399	Per Decade	Cumulative
910-1919	5			5	5
920-1929	2			2	7
930-1939	3	1		4	11
940-1949	10	2		12	23
950-	9	3	1	13	36
otals	29	6	1		
roposed	2		1		3

TABLE VII

SUMMARY OF ROCK-FILL DAMS BUILT PER DECADE

Period	Height in Feet			Totals	
	100-199	200-299	300-399	Per Decade	Cumulative
50-1859	2			2	2
60-1869					2
70-1879	2			2	4
80-1889	1			1	5
90-1899	1			1	6
00-1909	1	1		2	8
10-1919	4			4	12
20-1929	10	3		13	25
30-1939	12	5	2	19	44
40-1949	3	3		6	50
50-	9	6	2	17	67
tals	45	18	4		
oposed	1	6	3		10

TABLE VIII

SUMMARY OF EARTH-FILL DAMS BUILT PER DECADE

Period	Height in Feet				Totals	
	100-199	200-299	300-399	400-499	Per Decade	Cumulati
1860-1869	3				3	3
1870-1879	2				2	5
1880-1889						5
1890-1899	2				2	7
1900-1909	12				12	19
1910-1919	26				26	45
1920-1929	59	4			63	108
1930-1939	55	6			61	169
1940-1949	46	10	1	2	59	228
1950-	71	26	6	1	104	332
Totals	276	46	7	3		
Proposed	17	6	1	2		26

TABLE IX

SUMMARY OF DAMS OF ALL TYPES BUILT PER DECADE

Period	Height in Feet				Totals	
	100-199	200-299	300-399	400 & Over	Per Decade	Cumulati
Before 1850	5				5	5
1850-59	4				4	9
1860-69	5				5	14
1870-79	10				10	24
1880-89	11				11	35
1890-99	17				17	52
1900-09	51	3			54	106
1910-19	88	13	4		105	211
1920-29	220	37	6	1	264	475
1930-39	187	61	8	4	260	735
1940-49	156	36	11	7	210	945
1950-	195	105	35	19	354	1299
Totals						
Proposed	60	54	26	19		159

TABLE X

COUNTRIES OR REGIONS HAVING MORE THAN TEN ENTRIES IN TABLE I.

Country or Region	Approx. Area Sq. Miles	Entries (including proposed dams)	Square Miles per Dam, Average
lgeria	847,000	17	50,000
ustralia & Tasmania	2,974,000	51	59,000
ritish Isles	121,000	28	4,300
anada	3,690,000	39	95,000
hile	286,000	22	13,000
rance	213,000	54	3,900
ermany	143,000	38	3,800
ndia, Pakistan,) Ceylon, Burma,) Afghanistan)	2,117,000	59	36,000
taly	120,000	121	990
apan	148,000	220	670
exico	764,000	34	22,500
ew Zealand	104,000	16	6,500
uerto Rico	3,400	13	260
. Africa; S. Rhodesia	623,000	21	30,000
pain & Portugal	230,000	41	5,600
witzerland	16,000	25	640
ontinental U.S.A. including Alaska	3,022,000	566	5,350